



MEMORANDUM

To: Jack M. Kelsey, P.E.
Transportation Engineer
Office of Facilities Development
County of Albemarle

From: Brian McPeters, P.E.
Kimley-Horn and Associates

Date: August 14, 2015

Subject: Seminole Trail (US 29) Pedestrian Crossing Feasibility Study
Albemarle County, Virginia

Project Understanding

As requested, please find the following draft outline of tasks to complete a pedestrian bridge crossing feasibility study on Seminole Trail (US 29) generally between Hydraulic Road (Route 743) and Rio Road (Route 631). See **Attachment A**. The purpose of this study is to:

1. Determine where pedestrian crossing(s) on Seminole Trail are needed within the corridor, and
2. Determine the feasibility and type of pedestrian bridge improvements needed to facilitate pedestrians crossing Route 29. It is assumed that pedestrian crossings at grade within the study limits are not feasible due to traffic volumes, pedestrian crossing length, highway speeds and pedestrian safety.

Scope of Work and Fee Estimate

The following outline summarizes the anticipated tasks required to meet the above purpose. Should you choose to proceed with the study a more detailed scope and fee, including schedule, will be developed for your review and comment.

- Task 1 – Project Management, Coordination, and Meetings
 - Internal project coordination and quality control
 - External project coordination with County of Albemarle and VDOT
 - Up to 3 online meetings/conference calls at project milestones
- Task 2 – Data Collection
 - Assumes data collection at up to 4 study locations
 - Proposed data collection time periods (final count periods to be determined in conjunction with Albemarle County at time of scoping)
 - Weekday, AM peak period (7:00 AM to 9:00 AM)
 - Weekday, Midday period (11:00 AM to 1:00 PM)
 - Weekday, PM peak period (4:30 PM to 6:30 PM)

- Weekend (Saturday or Sunday),
 - Coordination with VDOT to obtain 3 most recent years of crash data
 - Field inventory, review, and observation of pedestrian activity within the study corridor
 - If necessary, compilation and review of relevant studies and plans within the area
- Task 3 – Existing Conditions
 - Summarize the following existing information in map and/or tabular format
 - Traffic count data (passenger car, pedestrian, bicyclist)
 - Crash patterns
 - Existing pedestrian crossing accommodations
 - Summary of field observations
 - Surrounding land uses
- Task 4 – Recommendations
 - Recommended locations within study corridor where grade-separated pedestrian crossings should be provided
 - Excluding the following planned grade-separated pedestrian crossing locations for consideration based on the US 29 Places 29 Master Plan for the Northern Development Areas – Map (**Attachment B**)
 - US 29 at Hydraulic Road (Route 743)
 - US 29 at Rio Road (Route 631)
- Task 5 – Design Criteria & Constraints

Determine any special design criteria or restrictions that could influence alternatives analysis, such as:

 - Design Pedestrian Loading
 - ADA requirements
 - Bicycle Accommodations
 - Any maintenance vehicular loading
 - Maintenance of Traffic restrictions or considerations
 - Any limitations due to limited available Right-of-way
- Task 6 – Superstructure Alternatives

Evaluate potential superstructure types

 - Pre-Engineered Solutions
 - Box Truss
 - 3-sided Truss
 - Arch Truss
 - Glulam Truss
 - Custom
 - Beam and Slab

- Tied Arch
- Cable-Stayed

- Task 7 – Access Alternatives
 - Helical Ramps
 - Switchback Ramps
 - Elevator/Stair Towers

- Task 8 – Report
 - Create Report complete with pictures of sample projects and estimated costs and a matrix comparing feasible alternatives

Kimley-Horn can provide the services described in Tasks 1 – Task 8 for a fee ranging between \$50,000 and \$65,000. Key assumptions influencing the fee include the number of study locations, number of peak period for which data is collected, and developing planning level cost estimates for proposed recommendations.

On behalf of Kimley-Horn and Associates, we appreciate your continued business and thank you for considering us to provide our services for this project. Should there be questions, please do not hesitate to give me a call at (804) 672-4721.

Sincerely,

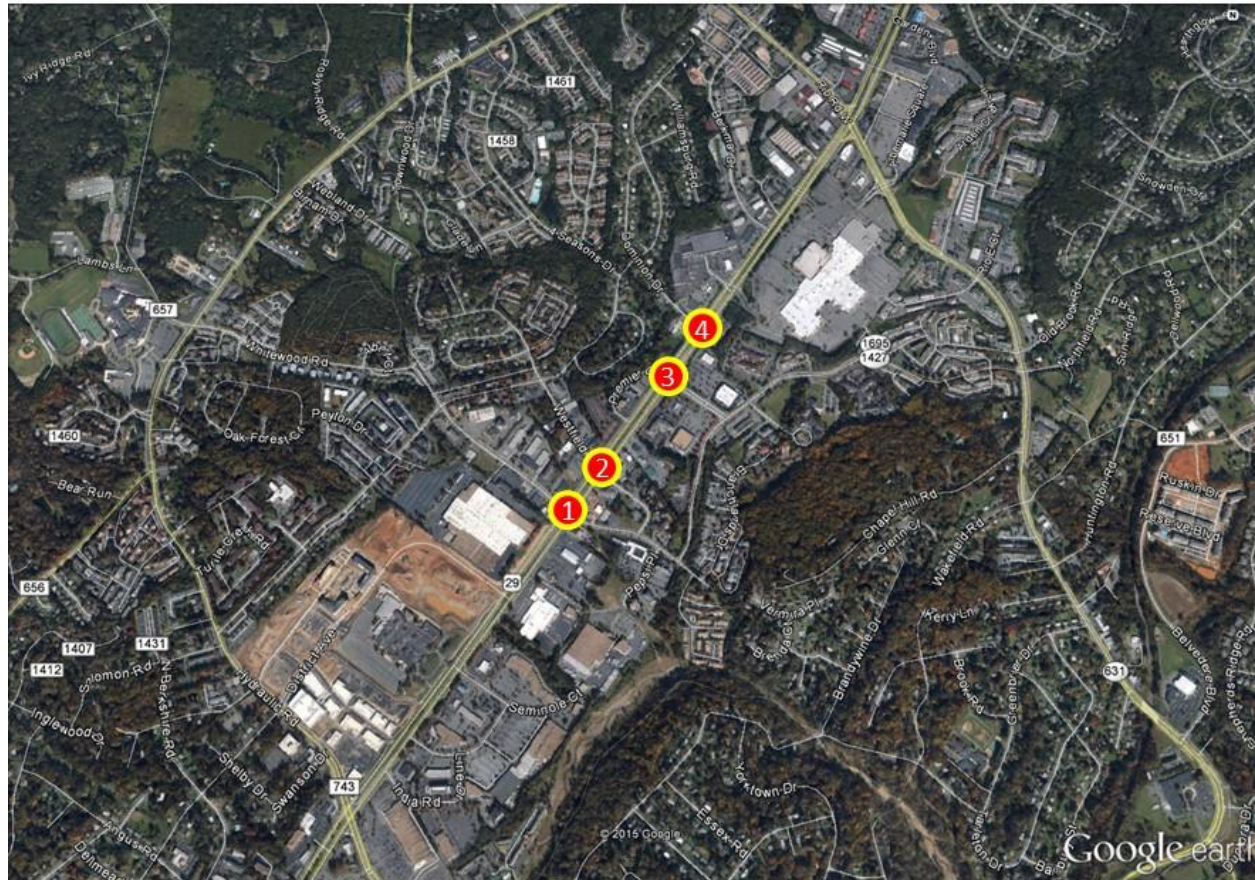
KIMLEY-HORN AND ASSOCIATES, INC.

Brian McPeters, P.E.

Associate

Attachment A: US 29 (Seminole Trail) Pedestrian Crossing Feasibility Study – Study Corridor

Attachment B: Places 29 Master Plan for the Northern Development Areas – Map Showing Planned Pedestrian Crossings on Seminole Trail



Attachment A:
US 29 Pedestrian Crossing
Feasibility Study, Albemarle, VA

Study Intersections (Up to 4):

1. US 29 at Greenbrier Drive
2. US 29 at Westfield Road
3. US 29 at Branchlands Boulevard
4. US 29 at Dominion Drive

Attachment B: Places 29 Master Plan for the Northern Development Areas – Map Showing Planned Pedestrian Crossings on Seminole Trail

