

Memorandum

Department of Public Works



TO: Michael O. Geisel, P.E.
City Administrator

FROM: James A. Eckrich, P.E. *JAE*
Public Works Dir. / City Engineer

DATE: May 12, 2020

RE: Clayton Road and Schoettler Road Pedestrian Crossing

As you know, the City of Chesterfield is currently managing a construction project to improve Schoettler Road from Georgetown Road to Clayton Road. These improvements include the construction of a center turn lane from Georgetown to Amberleigh, softening the northbound curve immediately north of Amberleigh, the construction of a sidewalk on the east side of Schoettler Road at 2290 Schoettler Road, and the addition of a dedicated right turn lane for southbound traffic traveling west on Clayton Road. This project was awarded by City Council at its March 16, 2020 meeting to the low bidder, Gershenson Construction Company, in an amount not to exceed \$990,000.

Shortly before this project was awarded, the City Staff received a concern that pedestrian improvements to the Schoettler / Henry / Clayton intersection were not included as part of this project. Specifically, the existing intersection includes pedestrian accommodations only on the north (Schoettler), west (Clayton), and south (Henry) portions of the intersection. See the attached Location Map.

Pedestrian improvements to Clayton Road were never considered by Engineering Staff as part of this project. The reasons are as follows:

- 1) The existing project begins at Georgetown and terminates near the Clayton Road right of way. While the City project does account for pedestrians crossing Schoettler Road near Clayton, the scope of the project never included pedestrian enhancements through the Clayton Road intersection.
- 2) Clayton Road, including the traffic signals, is maintained by the St. Louis County Department of Transportation. The City of Chesterfield Engineering Staff would not initiate enhancements to a County roadway without specific direction from City Council.
- 3) The existing Clayton / Schoettler / Henry intersection includes existing crosswalks allowing pedestrians to cross all three streets. While the “three-

leg” crossing may not be ideal, it is what was designed by St. Louis County as part of their arterial roadway system.

The estimated cost to modify the intersection and traffic signal to construct an additional Clayton Road crossing is \$61,000, as detailed in the attached memorandum from Senior Civil Engineer Jeff Paskiewicz. This includes engineering design fees and construction costs. Note that if the City were to undertake this project, St. Louis County would require the City to fund enhancements / updates to the entire intersection.

An important factor when considering this project is whether there is a real need for an additional Clayton Road crossing. A pedestrian traveling south on Schoettler Road desiring to cross Clayton Road has three options:

- 1) Go straight on Henry: A movement which is currently accommodated by the Clayton Road crossing on the west portion of the Schoettler intersection.
- 2) Go west on Clayton: A movement which is currently accommodated by the Clayton Road crossing on the west portion of the Schoettler intersection.
- 3) Go east on Clayton: A movement which is currently accommodated by the Clayton Road crossing on the west portion of the Village Green Parkway intersection (see Location Map).


If City Council determined that an additional Clayton Road crossing at the Schoettler Road intersection should be constructed, it would need to authorize an additional expenditure of \$61,000 as part of the Schoettler Road project. That would include monies to be paid to the engineering consultant (HR Green) as part of a design change order, the contractor (Gershenson) as part of a construction change order, and St. Louis County.

It is my recommendation that the City NOT fund an additional Clayton Road crossing. I do not believe the City should pay to enhance a County roadway outside the scope of this project. Further, I do not believe the expenditure is warranted based upon the existing crossings and limited benefit to area pedestrians.

Action Recommended

The Planning and Public Works Committee of City Council should consider an additional Clayton Road pedestrian crossing at the eastern portion of the Clayton / Schoettler intersection. If the PPW Committee concurs with Staff’s recommendation no action is required. If the PPW Committee determines that an additional crossing at Clayton Road should be constructed, it should authorize an additional \$61,000 for changes orders necessary to design and construct the additional crosswalk and required signal modifications.

Please forward to PPW for review and recommendation. Note: due to the pandemic revenue loss, the City has terminated multiple other capital projects and there is no funding available in the Capital Projects fund.

 2020-5-12

Memorandum

Department of Public Works



TO: James A. Eckrich, PE – Director of
Public Works /City Engineer

FROM: Jeff Paskiewicz, PE – Senior Civil
Engineer *JJP*

DATE: May 12, 2020

RE: Clayton Road/Schoettler Road Intersection
Pedestrian Crossing

As you are aware, the City received an inquiry from Ms. Kelli Unnerstall, a resident of the Seasons at Schoettler Subdivision, requesting a signalized pedestrian crossing on the eastern leg of the Clayton Road and Schoettler Road intersection. The current configuration of the intersection allows for signalized pedestrian crossing of the north, south, and west legs of the intersection. The eastern leg does not have a signalized pedestrian crossing. Please note that the intersection and signals are within St. Louis County right of way and are maintained by St. Louis County. Please see the attached location map.

I reviewed the intersection and solicited feedback from St. Louis County and HR Green, the design Engineer for the Schoettler Road Improvements Project. HR Green provided a proposal of \$17,000 to design the additional crossing, which would necessitate improvements to the entire intersection in accordance with St. Louis County requirements. The proposal includes design services only and does not include construction inspection services.

St. Louis County confirmed that if a signalized pedestrian crossing was to be added to the eastern leg that would require the entire intersection be brought into compliance with the Americans with Disabilities Act (ADA), including improvements to all four corners of the intersection. Those improvements include relocation and replacement of existing pedestrian push buttons with accessible pedestrian signal (APS) type buttons, installation of new pedestrian buttons and bases, installation of additional pedestrian signal heads, and associated wiring and upgrades to the signal controller. St. Louis County's estimate for the required signal work is \$30,000. In addition to the County's signal estimate, there would be additional work required, including: cut through modifications on the southeast island, full reconstruction of the northeast island, traffic control, striping, and restoration. Due to the nature of this work, I also recommend an allowance for any unforeseen issues that may arise

when reconfiguring the islands. Accordingly, I estimate an additional \$14,000 for work not included in St. Louis County's estimate. This would bring the total construction estimate to approximately \$44,000.

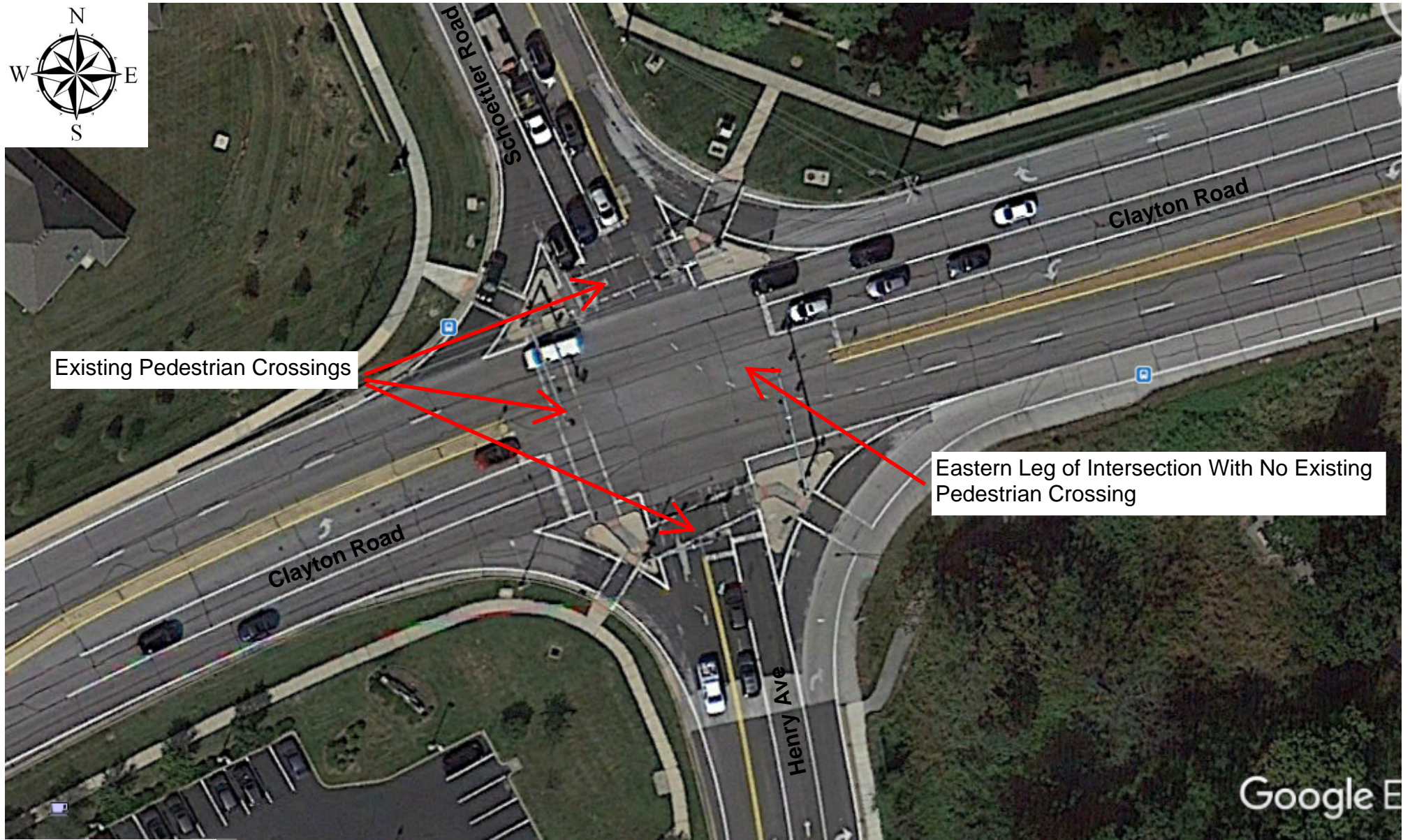
Based on the information presented above the total estimate for design and construction of the pedestrian crossing of the eastern leg of the intersection is \$61,000 (\$17,000 for design and \$44,000 for construction).

As requested, I have also included a second aerial photograph showing the intersection to the east at Clayton Road and Village Green Parkway. The intersection which is approximately 920 feet to the east, includes a pedestrian crossing on the west side of the intersection. This currently allows pedestrians traveling east to cross Clayton Road without "backtracking".

If you have any questions or need additional information, please let me know.

Attachments: Clayton Road/Schoettler Road Intersection Location Map
Clayton Road/Village Green Parkway Intersection Location Map

Cc: Zach Wolff, Assistant City Engineer
Project File



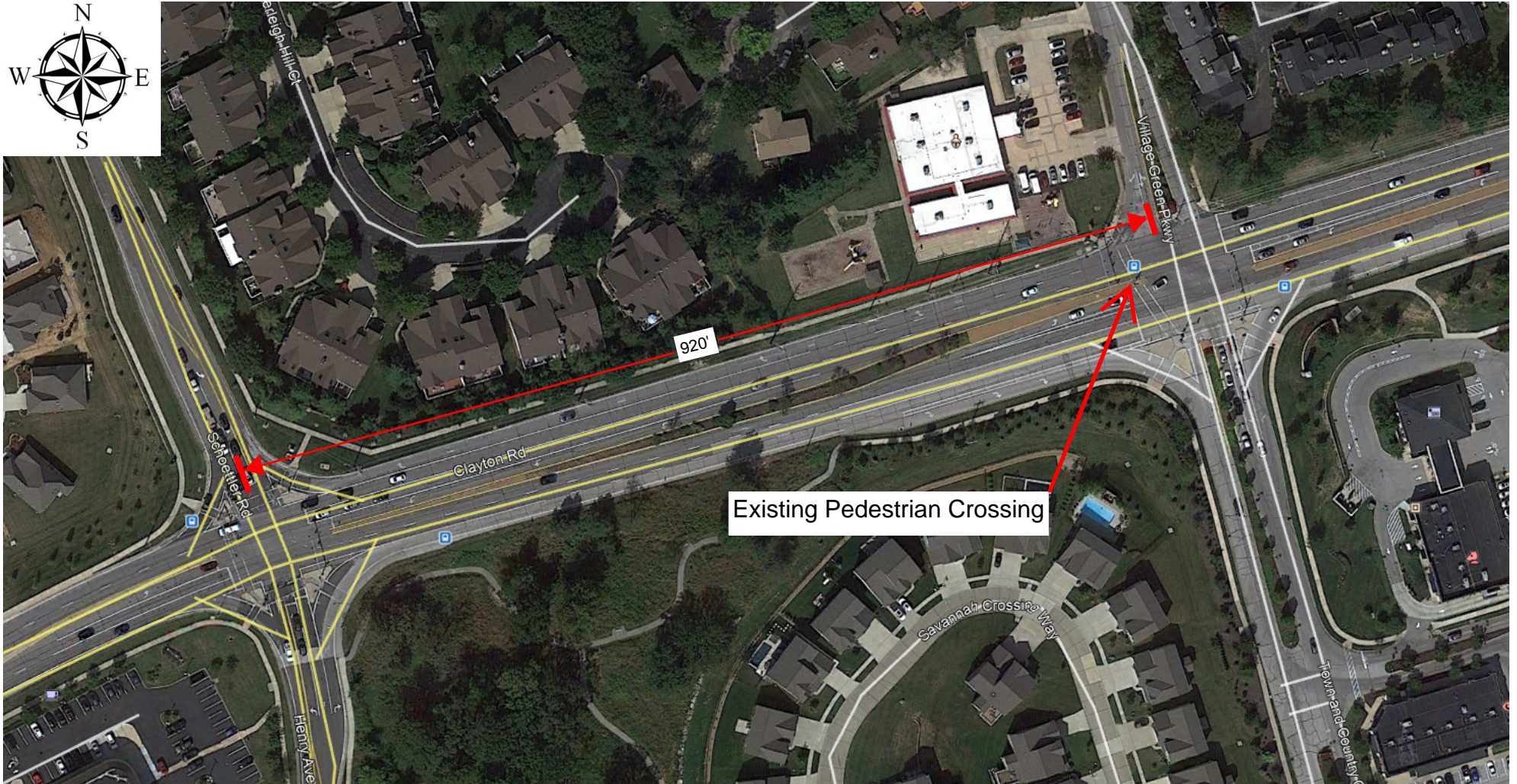
Existing Pedestrian Crossings

Eastern Leg of Intersection With No Existing Pedestrian Crossing

Google E



Clayton Road/Schoettler Road Intersection Pedestrian Crossing Location Map



Clayton Road/Village Green Parkway Intersection Pedestrian Crossing Location Map