

First Reading: April 5, 2022
Second Reading: dispensed

RESOLUTION 2022-029

**A RESOLUTION AUTHORIZING A CONTRACT FOR THE
KENWOOD ROAD AND MONTGOMERY ROAD TRAFFIC IMPACT STUDY
AND DISPENSING WITH A SECOND READING**

WHEREAS, the Board of Township Trustees wishes to contract with TEC Engineering for a traffic study of Montgomery Road from Garden Road to Kenwood Road and Kenwood Road from Euclid Road to Galbraith Road (the “Kenwood Road and Montgomery Road Traffic Impact Study”); and

WHEREAS, TEC Engineering’s fee for the scope of work detailed in the proposal is in the amount of \$44,920.00 and is in accordance with the specifications prepared by the Township;

NOW THEREFORE, BE IT RESOLVED by the Board of Township Trustees of Sycamore Township, State of Ohio:

SECTION 1. The attached proposal from TEC Engineering is hereby approved and the Township Administrator is hereby authorized and directed to execute the proposal on behalf of the Board.

SECTION 2. The contract price for the study shall not exceed \$44,920.00.

SECTION 3. The Board of Township Trustees of Sycamore Township, by at least two-third vote of all of its members, dispenses with any requirement that this Resolution be read on two separate days and authorizes its passage upon one reading.

SECTION 4. This Resolution shall take effect on the earliest date allowed by law.

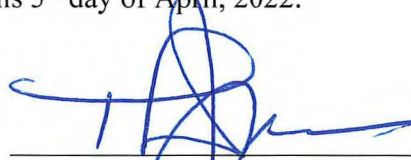
VOTE RECORD:

Mr. James Aye


Ms. Schwegmann Aye

Mr. Weidman Aye

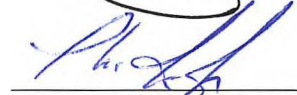
PASSED at the meeting of the Board of Trustees this 5th day of April, 2022.



Thomas J. Weidman, Chairman



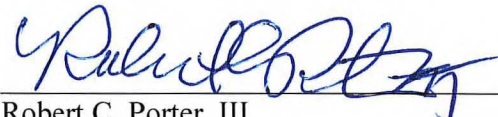
Tracy Schwegmann, Vice Chairman



Thomas C. James Jr., Trustee

AUTHENTICATION

This is to certify that this Resolution was duly passed and filed with the Sycamore Township Fiscal Officer, this 5th day of April, 2022.



Robert C. Porter, III
Sycamore Township Fiscal Officer

APPROVED AS TO FORM:


Lawrence E. Barbieri , Law Director

March 23, 2022

Tracy Kellums
Interim Township Administrator
Sycamore Township
8540 Kenwood Road
Cincinnati, Ohio 45236

RE: Traffic Study – Montgomery & Kenwood

Mr. Kellums:

TEC Engineering, Inc. is pleased to submit a response to your Request for a Proposal for a traffic study of the roadway network surrounding Montgomery Road & Kenwood Road. Based upon our discussion, TEC proposes the following:

Scope of Work – Traffic Study:

Field Data Collection

Study Area

The study area for the Traffic Study will include Kenwood Road from Euclid to Galbraith Road and Montgomery Road from Garden Road to Kenwood Road.

TEC will collect field data including existing geometry, roadway conditions, traffic observations, etc. in the study area. In addition, TEC will review the METRO bus schedule for all bus routes within the project area.

Traffic Counts

TEC will utilize the existing 24 hour traffic counts for Montgomery Road and Kenwood Road from the Ohio Department of Transportation.

TEC will conduct manual turning movement counts during the AM, Midday, PM and Weekend Peak (4 total hours) at the following intersections:

- Kenwood at Euclid
- Kenwood at I-71 NB Off Ramp
- Kenwood at I-71 SB On Ramp
- Kenwood at American Way
- Kenwood at Montgomery (US 22)
- Kenwood at Orchard Lane
- Kenwood at Nordstrom Rt in/ Rt Out Entrance
- Kenwood at Kenwood Place and Towne Centre Entrance
- Kenwood at Happiness Way

- Kenwood at Jewish Hospital and Towne Centre Entrance
- Kenwood at Galbraith Road
- Kenwood at Kugler Mill
- Montgomery Road at Garden Road
- Montgomery Road at Redstone and St. Vincent
- Montgomery Road at Kenwood Road

Growth Rate

TEC will use a 1.0% annual linear growth rate for the Opening Day (2025) and Horizon Year (2035) development scenarios

Crash Analysis

TEC will use the ODOT TIMS-GCAT system to gather 3 years of crash data (2019-2021). TEC will compile crash analysis for the following locations:

- Kenwood at Euclid
- Kenwood at I-71 NB Off Ramp
- Kenwood at I-71 SB On Ramp
- Kenwood at American Way
- Kenwood at Montgomery (US 22)
- Kenwood at Orchard Lane
- Kenwood at Nordstrom Rt in/ Rt Out Entrance
- Kenwood at Kenwood Place and Towne Centre Entrance
- Kenwood at Happiness Way
- Kenwood at Jewish Hospital and Towne Centre Entrance
- Kenwood at Galbraith Road
- Montgomery Road at Garden Road
- Montgomery Road at Redstone and St. Vincent
- Montgomery Road at Kenwood Road

TEC will use the Highway Safety Manual methodology and ODOT's Economic Crash Analysis Tool (ECAT) to determine the expected and predicted crashes for the existing corridor conditions.

Capacity Analysis

Based on discussions with the client, TEC will review the capacity at the following intersections using the appropriate traffic modeling software (Synchro, Sidra, Vissim, TransModeler, etc):

- Kenwood at Euclid
- Kenwood at I-71 NB Off Ramp
- Kenwood at I-71 SB On Ramp
- Kenwood at American Way
- Kenwood at Montgomery (US 22)
- Kenwood at Orchard Lane
- Kenwood at Nordstrom Rt in/ Rt Out Entrance
- Kenwood at Kenwood Place and Towne Centre Entrance

- Kenwood at Happiness Way
- Kenwood at Jewish Hospital and Towne Centre Entrance
- Kenwood at Galbraith Road
- Montgomery Road at Garden Road
- Montgomery Road at Redstone and St. Vincent
- Montgomery Road at Kenwood Road

TEC will complete capacity analysis for the following conditions:

- 2022 Existing
- 2025 Opening Year – Existing Infrastructure
- 2025 Conceptual Alternatives
- 2035 Opening Year – Existing Infrastructure
- 2035 Conceptual Alternatives

TEC will evaluate the AM, MID, PM and Weekend Peaks, as well as a review of the Black Friday MID and PM Peaks.

Conceptual Alternative:

TEC will develop 3 conceptual alternatives for the proposed conditions. These conceptual alternatives will review the traffic flow through the area and identify potential solutions to improve the flow of traffic in and around the Kenwood & Montgomery Intersection. These improvements will specifically look at the operation of Kenwood Road with regard to Orchard Lane and will include the potential of a new road through the township owned property.

As part of the project, TEC will review the proposed roadway, identify any residual land and draft a potential developmental plan. The generated traffic from this plan will be included in the future traffic analysis. In addition, TEC will evaluate the impact of the proposed development on the adjacent residential neighborhood and make recommendations.

Turn Lane Analysis

TEC will review the turn lane warrants at the signalized and unsignalized intersections based upon the ODOT Location & Design Manual and the State Highway Access Management Manual.

Queue Analysis

TEC will review the 95th Percentile queue lengths from Synchro to review turn bay lengths.

Recommendations

Based upon discussions with the Township, TEC will recommend improvements to the intersection. These will be broken into short, medium and long term recommendations. TEC will utilize the results of the crash analysis and capacity analysis to develop recommendations for the corridor. ODOT’s ECAT will be used to quantify the overall crash reductions associated with any proposed countermeasures throughout the corridor. All recommendations will be compiled onto

one final drawing and a final cost estimate will be completed. TEC will also develop a cost-benefit analysis based on the recommendations.

Scope of Work – Access Management Study:

Field Data Collection

Study Area

The study area for the Access Management Study will include Kenwood Road from Euclid to Montgomery Road.

TEC will collect field data including existing geometry, roadway conditions, traffic observations, etc. in the study area.

Traffic Counts

TEC will utilize the existing 24 hour traffic counts for Montgomery Road and Kenwood Road from the Ohio Department of Transportation.

TEC will conduct manual turning movement counts during the AM, Midday, PM and Weekend Peak (4 total hours) at the following intersections:

- Kenwood at Wendy's (In and Out)
- Kenwood at Taziki's (In and Out)
- Kenwood at Tire Discounters
- Kenwood at Kenwood Plaza (South and North Access)
- Kenwood at Kenwood Square Driveway (RIRO)
- Kenwood at Nadeau Furniture
- Kenwood at Sycamore Crossing
- Kenwood at US Bank
- Kenwood at BOA

Crash Analysis

TEC will use the ODOT TIMS-GCAT system to gather 3 years of crash data (2019-2021). TEC will compile collision diagrams and crash analysis for the following locations:

- Kenwood at Wendy's (In and Out)
- Kenwood at Taziki's (In and Out)
- Kenwood at Tire Discounters
- Kenwood at Kenwood Plaza (South and North Access)
- Kenwood at Kenwood Square Driveway (RIRO)
- Kenwood at Nadeau Furniture
- Kenwood at Sycamore Crossing
- Kenwood at US Bank
- Kenwood at BOA

Capacity Analysis

Based on discussions with the client, and conceptual alternatives of the intersections within the project area, TEC will complete a capacity analysis of the proposed conditions.

Recommendations

Based upon discussions with the Township, TEC will review the operation of the project area and make recommendations to improve the flow of traffic along Kenwood Road. This will include reviewing previous studies. TEC will develop an action plan for the corridor. This may include access management, driveway improvements, roundabouts, etc.

Scope of Work – Deliverables – For Both :

One study will be completed encompassing the Traffic Study and the Access Management Study.

Meetings

TEC has included two progress meetings with the Township.

Public Meeting

TEC has included one public meeting and one workshop as part of this project.

Report Services

All work will be summarized in a report document for submission to the Township. The report format will follow the outline in the RFP.

Grant Application

TEC will develop a funding plan for the project. This work will include the preparation of up to two (2) grant applications.

Deliverables

As part of the scope of services TEC Engineering, Inc. will provide the client with a preliminary report for review and potential revision to the report. Based on any comments, TEC will assemble a final report for submission.

TEC Engineering will provide up to four (4) color copies and eight (8) black and white copies of the final report for review to the reviewing party. TEC Engineering will provide one (1) revision of the final report based upon comments from the reviewing officials. Any additional modifications to the study based on subsequent reviews by the reviewing officials will be considered additional work to be billed to you on an hourly basis.

Fee:

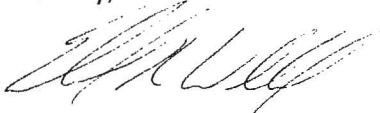
Our fee for the scope listed above will be **forty four thousand nine hundred twenty dollars (\$44,920)**. This project will be bill on a time and expense not to exceed basis.

Schedule:

TEC will begin work following your notice to proceed. A preliminary copy of the study will be provided to your office for review within 60 days following your notice to proceed.

We appreciate the opportunity to provide you with this scope of work and look forward to working with you on this project. Please call me at (513) 701-9804 if you require any further information.

Sincerely,

A handwritten signature in black ink, appearing to read 'Edward Williams', written in a cursive style.

Edward Williams, PE, PTOE, RSP
Vice President