



Via email: [Lisa.Ramundo@albanycountyny.gov](mailto:Lisa.Ramundo@albanycountyny.gov)

January 28, 2020

Ms. Lisa Ramundo  
Commissioner  
Albany County Department of Public Works  
449 New Salem Road  
Voorheesville, NY 12186

Re: Design and Construction Inspection for the Albany County Rail Trail over  
New Scotland Road (NY Route 85) Bridge Replacement Project  
Albany County Project No. 18-C541  
Intersection Capacity Analysis – Detour  
**Supplemental Agreement No. 5**

Dear Ms. Ramundo:

MJ Engineering and Land Surveying, P.C is pleased to submit this proposal for the intersection capacity analysis for the temporary detour included in the Albany County Rail Trail bridge project (18-C541) per your request.

### **Project Understanding**

---

NYSDOT has requested Albany County provide a capacity analysis of the intersection of Kenwood Road with NY Route 140 (Cherry Avenue) as it relates to the relocated volumes associated with the proposed temporary detour for the Albany County 18 -C541 project during construction.

The following scope of work covers the analysis of the existing condition and future condition at the above stated intersection during the proposed detour and includes the redistribution of traffic associated with the temporary closing of NY Route 85 (New Scotland Road) between Kenwood Avenue and Mullens Road for the proposed project.

The additional Construction Inspection time is a result of the change in scope of the project.

### **Scope of Work**

---

#### **Task 1: Capacity Analysis for Temporary Detour**

Turning movements will be provided. MJ will determine the peak hour traffic volumes from the turning movement volume data provided.

The peak hour volumes (year 2020) of vehicles that currently use NY Route 85 (New Scotland Road) between the intersections with Kenwood Avenue and NY Route 140 (Slingerland Bypass/Cherry Avenue) will be redistributed to the temporary detour route as specified in the contract plans to determine the anticipated detour volumes for analysis that will be applied at the subject intersection.



MJ will utilize industry standard design and traffic analysis software Synchro 10© to analyze the subject intersection for the existing and temporary detour conditions and provide Level of Service (LOS) results. NYSDOT has requested an analysis of the following intersection:

- NY Route 140 (Cherry Avenue) with Kenwood Avenue

**Deliverable:** A letter report summarizing the comparison of existing and temporary detour traffic conditions, LOS analysis, delay and recommended mitigation. Once comments have been received and incorporated from the County and the NYSDOT, a final letter report will be prepared.

### **Task 2: Contract Plans – Intersection Capacity Modifications**

In the event modifications are required at the subject intersection based on the results of the analysis, MJ will coordinate with Albany County on the specific scope of work to address the capacity deficiencies (if any) that result from the capacity analysis and subsequent NYSDOT review. MJ will supplement the current contract plans with additional information and/or plan sheets in order to address the modifications required.

The cost associated with this task is based on the assumptions noted below for Task 2 and may require negotiation once the results of the capacity analysis and subsequent NYSDOT review is complete and the scope of work associated with this task is more clearly defined.

**Deliverable:** Supplemental contract plans to implement mitigation measures agreed upon with NYSDOT.

### **Task 3: Construction Inspection**

MJ will provide one inspector to perform full time on-site inspection services for the duration of this construction project. The inspector shall possess, at a minimum, NICET Level IV certification and shall have at least ten years of actual bridge construction field experience. As part of the contract, the inspector shall:

- Attend all preconstruction meetings and prepare meeting minutes.
- Review all shop drawings associated with proposed construction and inform the County of approvals and any discrepancies.
- Create and maintain inspection reports using the NYSDOT CAM/MURK system, which upon completion of construction work, will be turned over to the County.
- Maintain inspection reports for sediment and erosion control during construction activity.
- Prepare a monthly estimate for work completed by contractor.
- Review and prepare change order(s) to be submitted to the County for approval.
- Assist the County with all construction contract disputes that arise while the contract is in effect.
- Prepare final as-built drawings. Submit one paper copy along with a CD for County's files.



## Assumptions

---

### Task 1

1. Turning movement counts will be provided for the following intersections:
  - a. NY Route 85 (New Scotland Road) with Kenwood Avenue
  - b. NY Route 140 (Cherry Avenue) with Kenwood Avenue
2. Turning movement counts will include all movements at the intersections listed above.
3. Albany County will request the traffic signal data and as-built plans from NYSDOT for the two intersections listed above. This information will be used in developing the Synchro© traffic models.
4. The capacity analysis will include the AM commuter peak period only for the temporary detour year 2020.

### Task 2

1. Additional survey is not required at the subject intersections.
2. Two additional contract plan drawing, and two additional detail/table drawings are included.
3. Modifications to existing work zone traffic control and detour plans are included.

### Task 3

1. Assume an additional 10 weeks of construction at 50 hrs./week.

## FEE

---

MJ proposes to complete the above-listed work and services for the following lump sum fee inclusive of expenses. Additional work, if requested that is not specified in or arising out of this proposal will be completed under a separate agreement.

Task	Description	Total Cost	Total Cost
1	Capacity Analysis for Temporary Detour	\$3,000	\$53,500
2	Intersection Capacity Modifications	\$7,000	
3	Construction Inspection	\$43,500	

These estimated fees assume there are no significant changes resulting from decisions, conditions and/or events beyond MJ's control.

---



## Schedule

---

MJ proposes to begin Task 1 immediately upon receipt of Notice to Proceed and the required data. We anticipate the draft letter to be completed within 10 business days of receipt of turning movement volume data.

## Summary

---

We appreciate the ongoing working relationship with the County and look forward to the next steps. Please contact us with any questions.

Sincerely,

Michael D. Panichelli, PE  
President