

RESOLUTION 2014-07 Passed: March 24, 2014

AUTHORIZING THE MAYOR OF THE CITY OF DEKALB, ILLINOIS TO ENTER INTO AN AGREEMENT WITH TRAFFIC ANALYSIS AND DESIGN, INC. TO PROVIDE TRAFFIC COUNTS IN THE DSATS REGION.

BE IT RESOLVED BY THE CITY COUNCIL of the City of DeKalb, Illinois, as follows:

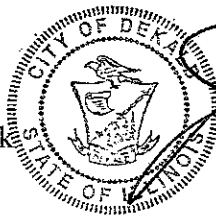
Section 1. That the Mayor of the City of DeKalb be authorized and directed to execute an agreement with Traffic Analysis and Design, Inc., for the purchase of traffic counting services in the DSATS region, a copy of which is attached hereto and made a part hereof as Exhibit "A." The execution of this agreement is subject to changes acceptable to the Mayor with the recommendation of the City Manager and City Attorney.

Section 2. That the City Clerk of the City of DeKalb be authorized and directed to attest the Mayor's signature.

PASSED BY THE CITY COUNCIL of the City of DeKalb, Illinois, at a regular meeting thereof held on the 24th day of March, 2014. Passed in the Consent Agenda by Omnibus Vote of 8-0. Aye: Jacobson, Finucane, Lash, Snow, Naylor, Baker, O'Leary, Rey.

ATTEST:


ELIZABETH E. PEERBOOM, City Clerk




JOHN A. REY, Mayor



March 25, 2014

Mr. Brian Dickson
DSATS Coordinator
223 S. 4th Street, Suite A
DeKalb, Illinois 60115

RE: Proposal for Traffic Engineering Services
DSATS 2014 Annual Traffic Count & Freight Movement Study

Dear Mr. Dickson:

Based on our recent discussions, TADI is pleased to submit this proposal for traffic engineering services for the DeKalb-Sycamore Area Transportation Study (DSATS) 2014 Annual Traffic Count & Freight Movement Study. Under the proposed scope of work, TADI will collect Average Daily Traffic (ADT) data and turning movement counts at selected locations and compare the results to previous years' data. Additionally, a truck traffic count and origin-destination study will be performed to evaluate heavy vehicle routing patterns through the DSATS region. A detailed description of the proposed scope of work is provided below.

SCOPE OF SERVICES

Per DSATS request, TADI has developed separate scopes of work for the Annual Traffic Count and the Freight Movement Study. Given that some count locations are shared between the two studies, TADI proposes that the two efforts be performed simultaneously in order to take advantage of a more efficient project schedule and fee. The areas where these efficiencies could be realized are noted in the following detailed scopes of work and are assumed as a part of the project fee provided in *Compensation*.

Task A – Annual Traffic Count

Item 1 – Data Collection

TADI will use video cameras to record traffic activity at the following locations, categorized according to the type of count data to be collected:

- Roadway Segment ADT (72-hour count)
 - Annie Glidden Road between Knolls Avenue North and Taylor Street*
 - Lincoln Highway (IL 38) between Pearl street and First Street
 - Somonauk Road between Cortland Center Road and Neucourt Boulevard
 - Sycamore Road between Barber Greene and Market Square Plaza**
 - Sycamore Road between Barber Greene and Oakland Drive**
 - State Street (IL 64) between Airport Road and County Line Lovell Road
- Intersection ADT (72-hour count)



- Lincoln Highway (IL 38) at John Huber Parkway
- Lincoln Highway (IL 38) at Annie Glidden Road
- Lincoln Highway (IL 38) at Peace Road
- Loves Road at Lincoln Highway (IL 38)
- South Fourth Street (IL 23) at Taylor Street
- South Fourth Street (IL 23) at Fairview Drive
- Annie Glidden Road at Dresser Road
- North First Street at Dresser Road
- Peace Road at Bethany Road
- Peace Road at Pleasant Street
- Peace Road at DeKalb Avenue (IL 23)
- Peace Road at State Street (IL 64)
- Peace Road at Brickville Road
- Peace Road/Plank Road at Main Street (IL 23)
- Somonauk Road at Barber Greene Road
- Bethany Road at North First Street
- Bethany Road at Somonauk Road
- Plank Road at Lindgren Road
- Intersection Turning Movement Count (12-hour count)
 - Peace Road at Freed Road
 - Plank Road at Lindgren Road[‡]

*Proposed to be counted as a 72-hour turning movement count at Annie Glidden Road/Taylor Street in order to count simultaneously with the segment of Annie Glidden Road north of Fairview Drive requested as part of the Freight Movement Study

**Proposed to be counted as a 72-hour turning movement count at Somonauk Road and Barber Greene Road

[‡]Overlaps with 72-hour intersection ADT count planned at this location

Count data will begin in April and will be collected on Tuesdays, Wednesdays, and Thursdays only, per DSATS direction. For locations being counted for 72 hours, results will be averaged across the three days of data collection in order to yield ADT values. Vehicle classification will also be performed at each location in order to categorize counts as cars/light trucks, medium trucks, or heavy trucks. Pedestrian and bicycle counts will also be provided, where applicable. Traffic count data will be summarized for use in evaluating growth trends throughout the DSATS region.

TADI is aware that a construction project is planned for Bethany Road between Peace Road and Somonauk Road and that work will begin in late April. Data collection at intersections located within the vicinity of this construction zone will be performed in early/mid-April so that the resulting data is not influenced by the anticipated diversion of traffic away from Bethany Road.



Item 2 – Evaluate Growth Trends

TADI will compare the ADT counts obtained in Item 1 with the past nine (9) years of Annual Traffic Count study data, to be provided by the Client. Trends of increasing or decreasing traffic volumes and/or truck percentages at individual locations will be identified, and potential causes for these changes will be developed for discussion with DSATS staff.

Item 3 – Meeting with DSATS Staff

Once the count data has been summarized and compared to past years' results, TADI will arrange a webconference with DSATS staff to review the findings. Potential causes for traffic volume growth trends will be presented for staff input, and final conclusions will be drawn as a group for documentation in the study.

Item 4 – Documentation

TADI will prepare a technical memorandum summarizing the study methodology, analyses, and findings. Graphics will be developed for the memorandum to depict an ADT map with volume-weighted lines and bi-directional volume data, an ADT map with volume-weighted lines and truck percentages, and an Average Daily Truck Traffic (ADTT) map with volume-weighted lines bi-directional data results. A 90 percent draft will be submitted to DSATS for review no later than June 30th. Based on comments received from the DSATS committee members, TADI will then revise and finalize the memorandum in July. Three (3) copies of the final report will be delivered to DSATS in hard copy, along with a CD containing a final version of the technical memorandum and a summary of all raw count data. If desired, TADI can provide DSATS staff with a link to view and download video files collected for the study.

Task B – Freight Movement Study

Item 1 – Data Collection

TADI will use high-definition video cameras to record truck license plate data at the following locations identified by DSATS staff. Because semi-tractor trailers have different license plates on the cab portion of the vehicle than on the trailer, cameras will be positioned to record the front license plate in both directions of travel. Additionally, 72-hour truck traffic count data will be collected at each of the locations below for use in calculating ADTT values for each segment.

- Peripheral Locations
 - IL 23 south of Gurler Road
 - Peace Road south of Fairview Drive
 - Fairview Drive east of IL 23[†]
 - IL 38 west of Somonauk Road
 - IL 64 east of Airport Road[†]
 - Plank Road east of IL 23[†]
 - IL 23 north of Plank Road[†]
 - IL 64 east of Annie Glidden Road
 - IL 38 west of Annie Glidden Road[†]
 - Annie Glidden Road north of Fairview Drive*



- Interior Locations
 - IL 23 north of IL 38
 - IL 23 south of IL 38
 - IL 38 east of IL 23
 - IL 38 west of IL 23

*Proposed to be counted as a 72-hour turning movement count at Annie Glidden Road/Taylor Street in order to count simultaneously with the segment of Annie Glidden Road between Taylor Street and Knolls Drive requested as part of the Annual Traffic Count

†Overlaps with 72-hour ADT count requested as part of the Annual Traffic Count

License plate data will be collected mid-week (Tuesday, Wednesday, or Thursday) from 6:00-9:00AM, 10:30-1:30PM, and 3:30-6:30 PM, mirroring the study periods utilized in the 2007 DSATS Truck Routing Study. ADTT data will be collected on Tuesdays, Wednesdays, and Thursdays only, per DSATS direction. The resulting video files will be used to accurately document truck license plates and categorize according to time (in 15-minute intervals) and direction (inbound or outbound).

It is assumed that data collection for the Freight Movement Study will be performed simultaneously with that for the Annual Traffic Count. If separate data collection schedules are requested, an addendum to this agreement may be required.

Item 2 – Evaluate Routing Patterns

TADI will process license plate data to find matches between more than one of the fourteen survey locations. Based on a suitable maximum travel time identified by DSATS staff, the proportion of through trips will be identified. The proportion of trucks that pass through the IL 23/IL 38 intersection will also be determined. The findings will be compared to the results of the 2007 study and any changes in travel patterns will be noted for inclusion in the technical memorandum.

Item 3 – Documentation

TADI will prepare a technical memorandum summarizing the study methodology, analyses, and findings. Graphics will be developed to represent truck traffic patterns in the region and truck traffic volumes along each of the study segments. A 90 percent draft will be submitted to DSATS for review no later than June 30th. Based on comments received from the DSATS committee members, TADI will then revise and finalize the memorandum in July.



SCHEDULE

Data collection will begin in April following receipt of authorization to proceed. It is TADI's understanding that data collection must be completed before the end of the school year at Northern Illinois University on May 9th. It is anticipated that a draft memorandum for each of the study components will be provided to the Client for review by June 30th for review. Based on comments received from DSATS committee members, a final copy of each memorandum will be prepared in July.

COMPENSATION

For the services outlined above in the *Scope of Services*, the Client shall pay the following lump sum fees.

Annual Count Program	\$26,300
<u>Freight Management Study</u>	<u>\$23,500</u>
Total	\$49,800

These fees include all labor and direct expenses related to the work items described herein and will not be exceeded without specific and written direction from the Client. Should the Client wish to extend TADI's services for the Annual Count Program, the below fees will be used to develop an appropriate cost for the desired scope of work.

Number of Count Locations:	Year 2015	Year 2016
One (1) segment	\$4,400	\$4,840
Five (5) segments	\$8,700	\$9,570
Ten (10) segments	\$12,900	\$14,190
Each additional segment in excess of 10	\$950 per segment	\$1,045

The Engineer's attendance at project meetings and/or public hearings not specifically included in the project scope will be charged on an hourly basis according to the following rates:

Senior Transportation Engineer	\$ 160
Transportation Engineer	\$ 125

Invoices for the Services will be sent to the Client monthly. All services not cited in the Scope of Services that are requested by the Client will be conducted as additional services under a written Amendment to this Agreement. If the proposal is acceptable, please sign and return one copy of the attached agreement for our records. Thank you for the opportunity to work with you on this challenging project.

Sincerely,

TADI

Timothy P. Sjogren, P.E., PTOE
Senior Transportation Engineer



AGREEMENT FOR ENGINEERING SERVICES

THIS AGREEMENT is entered into between the DeKalb-Sycamore Area Transportation Study (Client) and TADI (Engineer), based upon Client's desire for traffic count data collection and a truck license plate survey in the area of DeKalb, Sycamore, and Cortland, Illinois, (the Project) and Client's request that Engineer perform certain traffic engineering services in connection with the Project (the Services).

- 1. Engineer shall provide the Services described in "Scope of Services", according to "Schedule".
2. Client shall pay Engineer in accordance with "Compensation". Invoices for additional work shall be due and payable upon receipt. Invoice amounts not paid within 30 days shall accrue interest at the rate of 1.5% per month (or the maximum rate permitted by law, if less), with payments applied first to accrued interest and then to unpaid principal.
3. The same degree of care, skill, and diligence shall be exercised in the performance of the Services as is ordinarily possessed and exercised by a member of the same profession, currently practicing, under similar circumstances. No other warranty, express or implied, is included in this Agreement or in any drawing, specification, report, opinion, or other instrument of service, in any form or media, produced in connection with the Services.
4. Engineer shall not be liable to Client for any consequential damages resulting in any way from the performance of the Services. To the fullest extent permitted by law, Engineer's liability under this Agreement shall not exceed Engineer's total compensation actually received under this Agreement.
5. Notwithstanding anything to the contrary in any Attachments hereto, Engineer has no responsibility for (a) construction means, methods, techniques, sequences, procedures, or safety precautions and programs in connection with the Project; or (b) the failure of any contractor, subcontractor, vendor, or other Project participant, not under contract to Engineer, to fulfill contractual responsibilities to Client or to comply with federal, state, or local laws, regulations, and codes.
6. This Agreement may be terminated upon written notice at Client's convenience or by either party in the event of substantial

failure by the other party to perform in accordance with the terms of this Agreement. Engineer shall terminate performance of Services on a schedule acceptable to Client, and Client shall pay Engineer for all Services performed and reasonable termination expenses. Paragraphs 4 and 5 shall survive any termination or completion of this Agreement.

7. All documents prepared by Engineer pursuant to this Agreement are instruments of service in respect to the Project. Any use except for the specific purpose intended by this Agreement will be at the user's sole risk and without liability or legal exposure to Engineer. Engineer shall retain its ownership in its data bases, computer software, and other proprietary property. Intellectual property developed, utilized, or modified in the performance of the Services shall remain the property of Engineer.

8. The Services provided for in this Agreement are for the sole use and benefit of Client and Engineer. Nothing in this Agreement shall be construed to give any rights or benefits to anyone other than Client and Engineer.

9. Any notice required by this Agreement shall be made in writing to the individuals specified below:

Client:

DeKalb-Sycamore Area Transportation Study
223 S. 4th Street, Suite A
DeKalb, Illinois 60115
Attn: Mr. Brian Dickson

Engineer:

TADI
233 South Wacker Drive, Suite 8400
Chicago, Illinois 60606
Attn: Mr. Timothy P. Sjogren, P.E., PTOE

IN WITNESS WHEREOF, Client and Engineer have executed this Agreement, dated March 25, 2014.

CLIENT

DeKalb-Sycamore Area Transportation Study

By

[Handwritten signature of John A. Bieberitz]

Title

Date

ENGINEER

TADI

By:

[Handwritten signature of John A. Bieberitz]

John A. Bieberitz, P.E., PTOE

Date

March 25, 2014