


Municipality	L O C A L A G E N C Y	 Illinois Department of Transportation Preliminary Engineering Services Agreement For Motor Fuel Tax Funds	C O N S U L T A N T	Name TranSystems
Township				Address 1475 East Woodfield Rd Suite 600
County Lake				City Schaumburg
Section 11-00000-14-EG				State IL

THIS AGREEMENT is made and entered into this _____ day of _____, _____ between the above Local Agency (LA) and Consultant (ENGINEER) and test. covers certain professional engineering services in connection with the improvement of the above SECTION. Motor Fuel Tax Funds, allotted to the LA by the State of Illinois under the general supervision of the State Department of Transportation, hereinafter called the "DEPARTMENT", will be used entirely or in part to finance ENGINEERING services as described under AGREEMENT PROVISIONS.

Section Description

Name Lake County Challenge Bond Program Management

Route _____ Length _____ Mi. _____ FT (Structure No. _____)

Termini _____

Description:

The purpose of the project is to Manage the Lake County Division of Transportation (LCDOT) Challenge Bond Phase 2 Program consisting of five contracts by four consultants.

Agreement Provisions

The Engineer Agrees,

1. To perform or be responsible for the performance of the following engineering services for the LA, in connection with the proposed improvements herein before described, and checked below:
 - a. Make such detailed surveys as are necessary for the preparation of detailed roadway plans
 - b. Make stream and flood plain hydraulic surveys and gather high water data, and flood histories for the preparation of detailed bridge plans.
 - c. Make or cause to be made such soil surveys or subsurface investigations including borings and soil profiles and analyses thereof as may be required to furnish sufficient data for the design of the proposed improvement. Such investigations are to be made in accordance with the current requirements of the DEPARTMENT.
 - d. Make or cause to be made such traffic studies and counts and special intersection studies as may be required to furnish sufficient data for the design of the proposed improvement.
 - e. Prepare Army Corps of Engineers Permit, Department of Natural Resources-Office of Water Resources Permit, Bridge waterway sketch, and/or Channel Change sketch, Utility plan and locations, and Railroad Crossing work agreements.
 - f. Prepare Preliminary Bridge design and Hydraulic Report, (including economic analysis of bridge or culvert types) and high water effects on roadway overflows and bridge approaches.
 - g. Make complete general and detailed plans, special provisions, proposals and estimates of cost and furnish the LA with five (5) copies of the plans, special provisions, proposals and estimates. Additional copies of any or all documents, if required, shall be furnished to the LA by the ENGINEER at his actual cost for reproduction.
 - h. Furnish the LA with survey and drafts in quadruplicate of all necessary right-of-way dedications, construction easement and borrow pit and channel change agreements including prints of the corresponding plats and staking as required.

Note: Four copies to be submitted to the Regional Engineer .

- i. Assist the LA in the tabulation and interpretation of the contractors' proposals
- j. Prepare the necessary environmental documents in accordance with the procedures adopted by the DEPARTMENT's Bureau of Local Roads & Streets.
- k. Prepare the Project Development Report when required by the DEPARTMENT.
- l. **Services as included and/or defined in the attached Scope of Services.**

- (2) That all reports, plans, plats and special provisions to be furnished by the ENGINEER pursuant to the AGREEMENT, will be in accordance with current standard specifications and policies of the DEPARTMENT. It is being understood that all such reports, plats, plans and drafts shall, before being finally accepted, be subject to approval by the LA and the DEPARTMENT.
- (3) To attend conferences at any reasonable time when requested to do so by representatives of the LA or the Department.
- (4) In the event plans or surveys are found to be in error during construction of the SECTION and revisions of the plans or survey corrections are necessary, the ENGINEER agrees that he will perform such work without expense to the LA, even though final payment has been received by him. He shall give immediate attention to these changes so there will be a minimum delay to the Contractor.
- (5) That basic survey notes and sketches, charts, computations and other data prepared or obtained by the Engineer pursuant to this AGREEMENT will be made available, upon request, to the LA or the DEPARTMENT without cost and without restriction or limitations as to their use.
- (6) That all plans and other documents furnished by the ENGINEER pursuant to this AGREEMENT will be endorsed by him and will show his professional seal where such is required by law.

The LA Agrees,

To pay for services as described in the attached scope of work (Exhibit A) on a cost plus fixed fee basis up to a not-to-exceed fee of \$2,433,477.30.

The LA may request the ENGINEER to perform tasks outside of the attached scope of work (Exhibit A). Before performing this additional work, the LA and the ENGINEER shall agree in writing on the associated scope and fee.

- 1. To pay the ENGINEER as compensation for all services performed as stipulated in paragraphs 1a, 1g, 1i, 2, 3, 5 and 6 in accordance with one of the following methods indicated by a check mark:
 - a. A sum of money equal to _____ percent of the awarded contract cost of the proposed improvement as approved by the DEPARTMENT.
 - b. A sum of money equal to the percent of the awarded contract cost for the proposed improvement as approved by the DEPARTMENT based on the following schedule:

Schedule for Percentages Based on Awarded Contract Cost

Awarded Cost	Percentage Fees	
Under \$50,000	_____	(see note)
	_____	%
	_____	%
	_____	%
	_____	%

Note: Not necessarily a percentage. Could use per diem, cost-plus or lump sum.

- 2. To pay for services stipulated in paragraphs 1b, 1c, 1d, 1e, 1f, 1h, 1j & 1k of the ENGINEER AGREES at actual cost of performing such work plus * _____ percent to cover profit, overhead and readiness to serve - "actual cost" being defined as material cost plus payrolls, insurance, social security and retirement deductions. Traveling and other out-of-pocket expenses will be reimbursed to the ENGINEER at his actual cost. Subject to the approval of the LA, the ENGINEER may

sublet all or part of the services provided under the paragraph 1b, 1c, 1d, 1e, 1f, 1h, 1j & 1k. If the ENGINEER sublets all or part of this work, the LA will pay the cost to the ENGINEER plus a five (5) percent service charge. * - See Exhibit B

"Cost to Engineer" to be verified by furnishing the LA and the DEPARTMENT copies of invoices from the party doing the work. The classifications of the employees used in the work should be consistent with the employee classifications for the services performed. If the personnel of the firm, including the Principal Engineer, perform routine services that should normally be performed by lesser-salaried personnel, the wage rate billed for such services shall be commensurate with the work performed.

3. That payments due the ENGINEER for services rendered in accordance with this AGREEMENT will be made as soon as practicable after the services have been performed in accordance with the following schedule:
 - a. Upon completion of detailed plans, special provisions, proposals and estimate of cost - being the work required by paragraphs 1a through 1g under THE ENGINEER AGREES - to the satisfaction of the LA and their approval by the DEPARTMENT, 90 percent of the total fee due under this AGREEMENT based on the approved estimate of cost.
 - b. Upon award of the contract for the improvement by the LA and its approval by the DEPARTMENT, 100 percent of the total fee due under the AGREEMENT based on the awarded contract cost, less any amounts paid under "a" above.

By Mutual agreement, partial payments, not to exceed 90 percent of the amount earned, may be made from time to time as the work progresses.

4. That, should the improvement be abandoned at any time after the ENGINEER has performed any part of the services provided for in paragraphs 1a, through 1h and prior to the completion of such services, the LA shall reimburse the ENGINEER for his actual costs plus * _____ percent incurred up to the time he is notified in writing of such abandonment - "actual cost" being defined as in paragraph 2 of THE LA AGREES. * - See Exhibit B
5. That, should the LA require changes in any of the detailed plans, specifications or estimates except for those required pursuant to paragraph 4 of THE ENGINEER AGREES, after they have been approved by the DEPARTMENT, the LA will pay the ENGINEER for such changes on the basis of actual cost plus * _____ percent to cover profit, overhead and readiness to serve - "actual cost" being defined as in paragraph 2 of THE LA AGREES. It is understood that "changes" as used in this paragraph shall in no way relieve the ENGINEER of his responsibility to prepare a complete and adequate set of plans and specifications. * - See Exhibit B

It is Mutually Agreed,

1. That any difference between the ENGINEER and the LA concerning their interpretation of the provisions of this Agreement shall be referred to a committee of disinterested parties consisting of one member appointed by the ENGINEER, one member appointed by the LA and a third member appointed by the two other members for disposition and that the committee's decision shall be final.
2. This AGREEMENT may be terminated by the LA upon giving notice in writing to the ENGINEER at his last known post office address. Upon such termination, the ENGINEER shall cause to be delivered to the LA all surveys, permits, agreements, preliminary bridge design & hydraulic report, drawings, specifications, partial and completed estimates and data, if any from traffic studies and soil survey and subsurface investigations with the understanding that all such material becomes the property of the LA. The ENGINEER shall be paid for any services completed and any services partially completed in accordance with Section 4 of THE LA AGREES.
3. That if the contract for construction has not been awarded one year after the acceptance of the plans by the LA and their approval by the DEPARTMENT, the LA will pay the ENGINEER the balance of the engineering fee due to make 100 percent of the total fees due under this AGREEMENT, based on the estimate of cost as prepared by the ENGINEER and approved by the LA and the DEPARTMENT.
4. That the ENGINEER warrants that he/she has not employed or retained any company or person, other than a bona fide employee working solely for the ENGINEER, to solicit or secure this contract, and that he/she has not paid or agreed to pay any company or person, other than a bona fide employee working solely for the ENGINEER, any fee, commission, percentage, brokerage fee, gifts or any other consideration, contingent upon or resulting from the award or making of this contract. For Breach or violation of this warranty the LA shall have the right to annul this contract without liability.

IN WITNESS WHEREOF, the parties have caused the AGREEMENT to be executed in quadruplicate counterparts, each of which shall be considered as an original by their duly authorized officers.

Executed by the LA:

Lake County of the
(Municipality/Township/County)

ATTEST:

State of Illinois, acting by and through its

By _____

County Board

Lake County Clerk

By _____

(Seal)

Title Chairman of the County Board

Recommended for Execution:

By _____

Martin G. Buehler, P.E.
Title Director of Transportation
County Engineer

Executed by the ENGINEER:

TranSystems

1051 Perimeter Drive, Suite 1025

ATTEST:

Schaumburg, IL 60173-5058

By  _____

By  _____

Jeffrey R. Hall, P.E.
Title Assistant Vice President

Richard J. Morsches, P.E.
Title Executive Vice President

Approved

Date
Department of Transportation

Regional Engineer

EXHIBIT A - PROJECT SCOPE

Lake County Challenge Bond Program Management
Section No. 11-00000-14-EG

The purpose of the project is to Manage the Lake County Division of Transportation (LCDOT) Challenge Bond Phase 2 Program consisting of Rollins Road at Illinois Route 83 (Project A), Fairfield Road at Illinois Route 176 (Project B), Washington Street from Hainesville Road to Lake Street (Project C), and Fairfield Road at Illinois Route 134 (Project D). The Program Management scope will consist of Program Coordination, Program Management, Project Contract Administration, Project Management, and Administration.

The following is a summary of the \$2.4 million scope of work:

- Deliver Challenge Bond Program including Phase 2 Engineering, Right-of-Way, and Construction totaling \$98.3 million for \$700,000.
- Manage 4 Consultants on 5 Phase 2 Engineering Projects totaling \$9.6 million for \$300,000.
- Provide Peer Review of 4 Consultants on 5 Projects for \$600,000.
- Manage Right-of-Way acquisition process for 151 parcels on 5 Projects totaling \$8.7 million for \$400,000.
- Attend and manage 254 coordination meetings for \$400,000.

The scope assumes the contract will be approved at the March 15, 2011 County Board Meeting and extend for 30 months. The scope covers Program Management through the Pre-construction meeting of each project. Project meetings are scoped based on attendance by one person from the program management team.

The scope is based on the following:

- Challenge Bond Program Phase 2 Organization Chart provided by LCDOT on January 14, 2011
- Scoping meetings with LCDOT on January 19, 2011 and February 15, 2011
- Project A scope from Benesch dated February 17, 2011
- Project B scope from Civiltech dated February 16, 2011
- Project C scope from Patrick dated January 25, 2011
- Project D scope from HDR dated February 21, 2011

Task 1 Program Coordination

- A Monthly Meetings with LCDOT Senior Staff (Program Manager and Project Managers)
 - 1 Prepare Agenda
 - 2 Identify, assign, and resolve program issues
 - 3 Review project and quantify as a measureable
 - a Schedule
 - b Scope
 - c Cost
 - d Quality
 - e Process
 - f Methodology / Procedures

EXHIBIT A - PROJECT SCOPE

Lake County Challenge Bond Program Management
Section No. 11-00000-14-EG

- 4 Prepare action minutes and follow-up
 - a Action items
 - b Action assignment
 - c Action item progress
- 5 30 meetings anticipated from April 2011 through March 2013 (30 months)
- 6 Assume no meetings during Phase 3

Task 2 Program Management

- A Process & Methodology / Procedures
 - 1 Establish process & methodology / procedures for the program
 - 2 Follow established process & methodology / procedures
- B Scope
 - 1 Review scope of work for each project
 - 2 Note inconsistencies in scopes of work within program
 - 3 Review scope of work progress for each project
 - 4 Identify potential out of scope work prior to the request of change order
- C Quality Assurance
 - 1 Establish Quality Assurance guidelines for program
 - 2 Review Quality Assurance reviews for each project
- D Schedule
 - 1 Review Gantt chart for each project
 - 2 Identify critical path for each project
 - 3 Chart Gantt chart progress monthly
- E Contract Issues & Progress
 - 1 Review contract progress for each project
- F Right-of-way (ROW) Acquisition
 - 1 Identify ROW needs across program
 - 2 Identify ROW issues impacting schedule across program
- G Cost
 - 1 Identify baseline cost of each project
 - 2 Identify project cost within the program timeline
 - 3 Identify potential risk of cost changes on projects
 - 4 Identify cost changes and affect on program timeline
- H Financial Procedures
 - 1 Notify LCDOT of cost changes and affect on LCDOT overall program
- I Issue Resolution
 - 1 Identify issues

EXHIBIT A - PROJECT SCOPE

Lake County Challenge Bond Program Management
Section No. 11-00000-14-EG

- 2 Identify solution
- 3 Resolve issue
- J Risk Management
 - 1 Provide log of risks
- K Collaboration
 - 1 Coordinate with LCDOT throughout project
- L Interagency Coordination
 - 1 Arrange for LCDOT to pay permit fees as needed
 - 2 Determine required interagency agreements
 - a Project A – Commonwealth Edison (ComEd), Canadian National Railroad (CNRR), Illinois Commerce Commission (ICC) (3 anticipated)
 - b Project B – Lake County Forest Preserves (LCFP) (1 anticipated)
 - c Project C2 – Lake County Public Works (LCPW), North Shore Sanitary District (NSSD), Central Lake County Joint Action Water Agency (CLCJAWA), CNRR, Metra, ICC (6 anticipated)
 - d Project C3 – LCPW, NSSD, CLCJAWA, (3 anticipated)
 - e Project D – Metra (1 anticipated)
 - 3 Determine issues for each interagency agreement
 - 4 Prepare draft interagency agreements for LCDOT review
 - 5 Submit draft interagency agreements
 - 6 Coordinate with LCDOT for revised interagency agreements
 - 7 Coordinate with other agency for revised interagency agreements
 - 8 Submit final interagency agreements
- M Intergovernmental Coordination
 - 1 Determine required intergovernmental agreements
 - a Project A – Round Lake Beach, Greater Round Lake Park District (2 anticipated)
 - b Project B – None anticipated
 - c Project C2 – Grayslake, Grayslake Park District (2 anticipated)
 - d Project C3 – Grayslake, Hainesville, Round Lake Park (3 anticipated)
 - e Project D – Round Lake, Round Lake Beach (2 anticipated)
 - 2 Determine issues for each intergovernmental agreement
 - 3 Prepare draft intergovernmental agreements for LCDOT review
 - 4 Submit draft intergovernmental agreements
 - 5 Coordinate with LCDOT for revised intergovernmental agreements
 - 6 Coordinate with other government for revised intergovernmental agreements
 - 7 Submit final intergovernmental agreements
- N County Board Actions
 - 1 Prepare County Board packet
 - 2 Discuss County Board actions with LCDOT
 - 3 Conclude actions after County Board approval

EXHIBIT A - PROJECT SCOPE

Lake County Challenge Bond Program Management
Section No. 11-00000-14-EG

- O Phase 3 Planning
 - 1 Determine project letting dates
 - 2 Coordinate with LCDOT on Phase 3 issues
 - 3 Assist LCDOT with review of Phase 3 scopes
 - 4 Meet with LCDOT as letting dates approach for each project
 - 5 Respond to questions during bidding
 - 6 Utility coordination after the pre-construction meeting is not included in this scope
 - 7 Responses to Phase 3 RFI's is not included in this scope
 - 8 Phase 3 coordination of shop drawing reviews is not included in this scope

Task 3 Project Contract Administration

- A Review Consultant Invoices
- B Review Consultant Progress
- C Review Consultant Change Orders
 - 1 Follow LCDOT Design procedures

Task 4 Project A Management – Rollins Road at Illinois Route 83

- A Attend Project Meetings
 - 1 Benesch
 - a Geotechnical Review (2 meetings anticipated)
 - b Design Review (3 meetings anticipated)
 - c Pre-construction (1 meeting anticipated)
 - d Coordination (30 meetings anticipated)
 - 2 Public Meetings (5 meetings anticipated)
 - 3 IDOT (6 meetings anticipated)
 - 4 LCSMC (4 meetings anticipated)
 - 5 Round Lake Beach (4 meetings anticipated)
 - 6 Greater Round Lake Park District (2 meetings anticipated)
 - 7 ComEd (8 meetings anticipated)
 - 8 Railroad (18 meetings anticipated)
 - a CNRR
 - b ICC
- B Review Draft Project Development Report (PDR)
- C Review Final PDR
- D Value Engineering (VE)
 - 1 Review Draft VE Report
 - 2 Attend VE Review Meeting

EXHIBIT A - PROJECT SCOPE

Lake County Challenge Bond Program Management
Section No. 11-00000-14-EG

- 3 Review Final VE Report
- E ROW Acquisition
 - 1 Review Plats & Legals
 - 2 Coordinate Quick Take on IDOT parcels
 - 3 Coordinate with Attorney on LCDOT parcels
 - 4 Draft ROW coordination letters for LCDOT signature
- F Coordinate Consultant Utility Coordination
 - 1 Track Utility Relocation Progress
 - 2 Coordination with Utility Contacts
 - 3 Attend Utility Coordination Meetings (3 meetings are anticipated)
 - 4 Review Utility Permits
- G Review Preliminary, Pre-Final, and Final Design Plans
 - 1 Review Roadway Plans
 - a Roadway
 - b Drainage
 - c Water Main
 - d Erosion Control
 - e Pavement Marking
 - f No Signing is anticipated
 - g Traffic Signals
 - h Lighting
 - i Landscaping
 - j Special Provisions
 - k Time Estimate
 - l Cost Estimate
 - m Permits
 - 1) Phase 1 Environmental Sign-offs
 - 2) LCSMC
 - 3) IEPA Water Main
 - 2 Review Structural Plans
 - a CNRR Bridge over Rollins Road
 - b Retaining Walls
 - 1) 4 CNRR Retaining Walls
 - 2) 2 ComEd Tower Walls
 - 3) 2 IL83 Retaining Walls
 - c Temporary Structures
 - 1) Temporary roadway bridge over Rollins Road
 - 2) Temporary sheeting walls for CNRR Bridge
 - 3 Review Railroad Plans
 - a Review Phase 1 Geometrics

EXHIBIT A - PROJECT SCOPE

Lake County Challenge Bond Program Management
Section No. 11-00000-14-EG

- b Initial field walk-through
- c Review Railroad Agreements
- d Review Construction Staging
- e Provide Project Support
- f Review Plans
- g Review Special Provisions
- h Review Cost Estimate
- i Final field walk-through
- 4 Review Construction Plans
 - a Constructability
 - b Construction Staging
- 5 Coordinate LCDOT Review
- 6 Resolve Conflicting Review Comments
- 7 Compile Review Comments

Task 5 Project B Management – Fairfield Road at Illinois Route 176

- A Attend Project Meetings
 - 1 Civiltech
 - a Geotechnical Review (2 meetings anticipated)
 - b Design Review (3 meetings anticipated)
 - c Pre-construction (1 meeting anticipated)
 - d Coordination (18 meeting anticipated)
 - 2 No Public Meetings anticipated
 - 3 IDOT (6 meetings anticipated)
 - 4 LCSMC (1 meetings anticipated)
 - 5 LCFP (3 meetings anticipated)
 - 6 No local agency meetings anticipated
- B Review Draft Phase 1 Geometrics
- C Review Final Phase 1 Geometrics
- D VE is not included in Project B
- E ROW Acquisition
 - 1 Review Plats & Legals
 - 2 Coordinate with Attorney on LCDOT parcels
 - 3 Draft ROW coordination letters for LCDOT signature
- F Coordinate Consultant Utility Coordination
 - 1 Track Utility Relocation Progress
 - 2 Coordination with Utility Contacts
 - 3 Attend Utility Coordination Meetings (3 meetings are anticipated)

EXHIBIT A - PROJECT SCOPE

Lake County Challenge Bond Program Management
Section No. 11-00000-14-EG

- 4 Review Utility Permits
- G Review Preliminary, Pre-Final, and Final Design Plans
 - 1 Review Roadway Plans
 - a Roadway
 - b Drainage
 - c Erosion Control
 - d Pavement Marking and Signing
 - e Traffic Signals
 - f Lighting
 - g Landscaping
 - h Special Provisions
 - i Time Estimate
 - j Cost Estimate
 - k Permits
 - 1) Phase 1 Environmental Sign-offs
 - 2) LCSMC
 - 3) IDOT
 - 2 Review Structural Plans
 - a Underpass No. 1
 - b Underpass No. 2
 - c Pedestrian Bridge
 - d Retaining Walls
 - 1) A - 250' long 7.5' high soldier pile
 - 2) B - 200' long 4' high soldier pile
 - 3) C - 375' long 5' high cast in place
 - 4) D - 250' long 5' high cast in place
 - 5) E - 350' long 9' high soldier pile
 - 6) F - 300' long 6' high soldier pile
 - 7) G - 800' long 7' high cast in place
 - e Fairfield Road Bridge over Illinois Route 176
 - 3 Review Construction Plans
 - a Constructability
 - b Construction Staging
 - 4 Coordinate LCDOT Review
 - 5 Resolve Conflicting Review Comments
 - 6 Compile Review Comments

EXHIBIT A - PROJECT SCOPE

Lake County Challenge Bond Program Management
Section No. 11-00000-14-EG

Project C2 Management – Washington Street – Haryan Way to Lake Street

- H Attend Project Meetings
 - 1 Patrick
 - a Geotechnical Review (2 meetings anticipated)
 - b Design Review (3 meetings anticipated)
 - c Pre-construction (1 meeting anticipated)
 - d Coordination (9 meetings anticipated)
 - 2 No Public Meetings anticipated
 - 3 IDOT (2 meetings anticipated)
 - 4 LCSMC (2 meetings anticipated)
 - 5 LCPW (2 meetings anticipated)
 - 6 NSSD (1 meeting anticipated)
 - 7 No CLCJAWA meetings anticipated
 - 8 United States Army Corps of Engineers (USACE) (2 meetings anticipated)
 - 9 No Illinois Environmental Protection Agency (IEPA) meetings anticipated
 - 10 Grayslake (2 meetings anticipated)
 - 11 Grayslake Park District (2 meetings anticipated)
 - 12 Railroad
 - a CNRR (4 meetings anticipated)
 - b Metra (2 meetings anticipated)
 - c No ICC meetings anticipated
- I Review Draft PDR
- J Review Final PDR
- K Value Engineering
 - 1 Review Draft VE Report
 - 2 Attend VE Review Meeting
 - 3 Review Final VE Report
- L ROW Acquisition
 - 1 Review Plats & Legals
 - 2 Coordinate with Attorney on LCDOT parcels
 - 3 Draft ROW coordination letters for LCDOT signature
- M Coordinate Consultant Utility Coordination
 - 1 Track Utility Relocation Progress
 - 2 Coordination with Utility Contacts
 - 3 Attend Utility Coordination Meetings (4 meetings are anticipated)
 - 4 Review Utility Permits
- N Review Preliminary, Pre-Final, and Final Design Plans
 - 1 Review Roadway Plans
 - a Roadway

EXHIBIT A - PROJECT SCOPE

Lake County Challenge Bond Program Management
Section No. 11-00000-14-EG

- b Drainage
- c Pump Station
- d Water Main
- e Sanitary Sewer
- f Erosion Control
- g Pavement Marking
- h No Signing is anticipated
- i No Traffic Signals is anticipated
- j Lighting
- k Landscaping
- l Special Provisions
- m Time Estimate
- n Cost Estimate
- o Permits
 - 1) Phase 1 Environmental Sign-offs
 - 2) LCSMC
 - 3) USACE / IEPA Wetland
 - 4) IEPA Water Main
- 2 Review Structural Plans
 - a CNRR Bridge over Washington Street
 - b Retaining Walls
 - 1) Southwest CNRR Retaining Wall
 - 2) Southeast CNRR Retaining Wall
 - c Junction Chamber
 - d Pump Station
- 3 Review Railroad Plans
 - a Review Phase 1 Geometrics
 - b Initial field walk-through
 - c Review Railroad Agreements
 - d Review Construction Staging
 - e Provide Project Support
 - f Review Plans
 - g Review Special Provisions
 - h Review Cost Estimate
 - i Final field walk-through
- 4 Review Construction Plans
 - a Constructability
 - b Construction Staging
- 5 Coordinate LCDOT Review
- 6 Resolve Conflicting Review Comments

EXHIBIT A - PROJECT SCOPE

Lake County Challenge Bond Program Management
Section No. 11-00000-14-EG

7 Compile Review Comments

Task 6 Project C3 Management – Washington Street – Hainesville Road to Haryan Way

- A Attend Project Meetings
 - 1 Patrick
 - a Geotechnical Review (2 meetings anticipated)
 - b Design Review (3 meetings anticipated)
 - c Pre-construction (1 meeting anticipated)
 - d Coordination (9 meetings anticipated)
 - 2 No Public Meetings anticipated
 - 3 IDOT (2 meetings anticipated)
 - 4 LCSMC (2 meetings anticipated)
 - 5 LCPW (2 meetings anticipated)
 - 6 NSSD (1 meeting anticipated)
 - 7 No CLCJAWA meetings anticipated
 - 8 USACE (2 meetings anticipated)
 - 9 No IEPA meetings anticipated
 - 10 Grayslake (2 meetings anticipated)
 - 11 No Grayslake Park District meetings anticipated
 - 12 Hainesville (2 meetings anticipated)
 - 13 Round Lake Park (2 meetings anticipated)
- B Review Draft PDR
- C Review Final PDR
- D Value Engineering
 - 1 Review Draft VE Report
 - 2 Attend VE Review Meeting
 - 3 Review Final VE Report
- E ROW Acquisition
 - 1 Review Plats & Legals
 - 2 Coordinate with Attorney on LCDOT parcels
 - 3 Draft ROW coordination letters for LCDOT signature
- F Coordinate Consultant Utility Coordination
 - 1 Track Utility Relocation Progress
 - 2 Coordination with Utility Contacts
 - 3 Attend Utility Coordination Meetings (4 meetings are anticipated)
 - 4 Review Utility Permits
- G Review Preliminary, Pre-Final, and Final Design Plans
 - 1 Review Roadway Plans
 - a Roadway

EXHIBIT A - PROJECT SCOPE

Lake County Challenge Bond Program Management
Section No. 11-00000-14-EG

- b Drainage
- c Water Main
- d Sanitary Sewer
- e Erosion Control
- f Pavement Marking
- g No Signing is anticipated
- h Traffic Signals
- i No Lighting is anticipated
- j Landscaping
- k Special Provisions
- l Time Estimate
- m Cost Estimate
- n Permits
 - 1) Phase 1 Environmental Sign-offs
 - 2) LCSMC
 - 3) USACE / IEPA Wetland
 - 4) IEPA Water Main
- 2 Review Structural Plans
 - a Extend Highland Lake culvert under Washington Street
 - b Retaining Walls
 - 1) North Highland Lake 110' long Retaining Wall
 - 2) South Highland Lake 690' long Retaining Wall
 - 3) South 450' long Retaining Wall
 - c Junction Chamber
- 3 Review Construction Plans
 - a Constructability
 - b Construction Staging
- 4 Coordinate LCDOT Review
- 5 Resolve Conflicting Review Comments
- 6 Compile Review Comments

Task 7 Project D Management – Fairfield Road at Illinois Route 134

- A Attend Project Meetings
 - 1 HDR
 - a No Geotechnical meetings anticipated
 - b Design Review (3 meetings anticipated)
 - c Pre-construction (1 meeting anticipated)
 - d Coordination (13 meetings anticipated)

EXHIBIT A - PROJECT SCOPE

Lake County Challenge Bond Program Management
Section No. 11-00000-14-EG

- 2 No Public Meetings anticipated
- 3 IDOT (3 meetings anticipated)
- 4 No LCSMC meetings anticipated
- 5 No USACE meetings anticipated
- 6 No IEPA meetings anticipated
- 7 Round Lake (1 meeting anticipated)
- 8 Round Lake Beach (1 meeting anticipated)
- 9 Railroad
 - a Metra (2 meetings anticipated)
 - b No ICC meetings anticipated
- B Review Draft PDR
- C Review Final PDR
- D VE is not included in Project D
- E ROW Acquisition
 - 1 Review Plats & Legals
 - 2 Coordinate Quick Take on IDOT parcels
 - 3 Coordinate with Attorney on LCDOT parcels
 - 4 Draft ROW coordination letters for LCDOT signature
- F Coordinate Consultant Utility Coordination
 - 1 Track Utility Relocation Progress
 - 2 Coordination with Utility Contacts
 - 3 Attend Utility Coordination Meetings (5 meetings are anticipated)
 - 4 Review Utility Permits
- G Review Preliminary, Pre-Final, and Final Design Plans
 - 1 Review Roadway Plans
 - a Roadway
 - b Drainage
 - c No Water Main is anticipated
 - d No Sanitary Sewer is anticipated
 - e Erosion Control
 - f Pavement Marking
 - g No Signing is anticipated
 - h Traffic Signals
 - i No Lighting is anticipated
 - j Landscaping
 - k Special Provisions
 - l Time Estimate
 - m Cost Estimate
 - n Permits
 - 1) Phase 1 Environmental Sign-offs

EXHIBIT A - PROJECT SCOPE

Lake County Challenge Bond Program Management
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- 2) LCSMC
- 3) USACE / IEPA Wetland
- 2 No Structural Plans is anticipated
- 3 No Railroad Plans is anticipated
- 4 Review Construction Plans
 - a Constructability
 - b Construction Staging
- 5 Coordinate LCDOT Review
- 6 Resolve Conflicting Review Comments
- 7 Compile Review Comments

Task 8 Administration

- A Prepare Monthly Invoices and Progress Reports
- B Manage Internal Staffing
- C Hold Internal Team Meetings
- D Organize Project Documentation



Illinois Department of Transportation

Average Hourly Project Rates

Route Challenge Bond Program Management

Section 11-00000-14-EG

County Lake

Job No. _____ Consultant TranSystems

Date 02/22/11

PTB/Item _____ Sheet 1 OF 2

Payroll Classification	Avg Hourly Rates	Total Project Rates			1-Program Coordination			2-Program Management			3-Project Contract Administration			4-Project A Management			5-Project B Management		
		Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg
Senior Project Manager (Highway)	70.00	1539	10.49%	7.35	180	25.00%	17.50												
Senior Project Manager (Railroad)	70.00	110	0.75%	0.53															
Project Manager (Highway)	64.30	3581	24.42%	15.70	180	25.00%	16.07	1935	50.00%	32.15	70	14.00%	9.80	361	13.94%	9.76	201	15.78%	11.04
Chief Structural Engineer	70.00	158	1.08%	0.75															
Senior Project Engineer (Highway)	61.42	3079	21.00%	12.89	180	25.00%	15.35	1935	50.00%	30.71	70	14.00%	8.60	235	9.08%	5.57	119	9.34%	5.74
Project Engineer (Highway)	53.81	603	4.11%	2.21															
Resident Engineer	53.10	316	2.15%	1.14															
Design Engineer III (Highway)	44.93	2431	16.58%	7.45	180	25.00%	11.23												
Design Engineer II (Highway)	36.91	1507	10.28%	3.79															
Design Engineer I (Highway)	30.74	557	3.80%	1.17															
Land Surveyor	35.51	604	4.12%	1.46															
Senior Administrator	38.25	180	1.23%	0.47															
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		0																	
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TOTALS		14665	100%	\$54.92	720	100%	\$60.16	3870	100%	\$62.86	500	100%	\$52.70	2589	100%	\$53.29	1274	100%	\$52.99



**Illinois Department
of Transportation**

Average Hourly Project Rates

Route Challenge Bond Program Management Consultant TranSystems Sheet 2 OF 2
 Section 11-00000-14-EG County Lake Date 02/22/11
 Job No. PT/Item

Payroll Classification	Avg Hourly Rates	6-Project C2 Management			7-Project C3 Management			8-Project D Management			9-Administration			Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg
		Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg						
Senior Project Manager (Highway)	70.00	182	13.11%	9.18	241	13.15%	9.20	244	13.78%	9.64	60	8.33%	5.83						
Senior Project Manager (Railroad)	70.00	54	3.89%	2.72															
Project Manager (Highway)	64.30	183	13.18%	8.48	261	14.24%	9.16	260	14.68%	9.44	60	8.33%	5.36						
Chief Structural Engineer	70.00	34	2.45%	1.71	10	0.55%	0.38												
Senior Project Engineer (Highway)	61.42	123	8.86%	5.44	183	9.98%	6.13	174	9.82%	6.03	60	8.33%	5.12						
Project Engineer (Highway)	53.81	86	6.20%	3.33	86	4.69%	2.52	70	3.95%	2.13	60	8.33%	4.48						
Resident Engineer	53.10	58	4.18%	2.22	45	2.45%	1.30	47	2.65%	1.41									
Design Engineer III (Highway)	44.93	328	23.63%	10.62	455	24.82%	11.15	459	25.92%	11.64	60	8.33%	3.74						
Design Engineer II (Highway)	36.91	261	18.80%	6.94	329	17.95%	6.63	309	17.45%	6.44									
Design Engineer I (Highway)	30.74	35	2.52%	0.78	7	0.38%	0.12												
Land Surveyor	35.51	44	3.17%	1.13	216	11.78%	4.18	208	11.74%	4.17	390	54.17%	16.65						
Senior Administrator	38.25										30	4.17%	1.59						
TOTALS		1388	100%	\$52.55	1833	100%	\$50.78	1771	100%	\$50.91	720	100%	\$42.78	0	0%	\$0.00	0	0%	\$0.00