



# Chicago Metropolitan Agency for Planning

233 South Wacker Drive  
Suite 800  
Chicago, Illinois 60606  
312 454 0400  
[www.cmap.illinois.gov](http://www.cmap.illinois.gov)

November 26, 2012

## REQUEST FOR PROPOSALS (RFP) NO. 097

### AGENT-BASED ECONOMIC EXTENSION TO MESOSCALE FREIGHT MODEL

Chicago Metropolitan Agency for Planning (CMAP) is requesting proposals from interested firms to provide an agent-based economic extension to our mesoscale freight model as described in the enclosed Request for Proposals (RFP).

A one-hour non-mandatory on-line pre-proposal information session will be held November 30, 2012 at 1:30 p.m. CST. The information session will include a 20 minute introduction to CMAP's Advanced Travel Model work program. The remaining time will be devoted to answering questions from potential respondents. Registration for the on-line session and questions regarding the RFP must be submitted in advance by noon November 29 to [yambriz@cmap.illinois.gov](mailto:yambriz@cmap.illinois.gov). Answers to these questions will be provided during the meeting and posted on-line afterward.

Participation in the pre-proposal information session is non-mandatory, but is offered as a way to better understand the scope of work we are trying to accomplish. CMAP strongly encourages those interested in this project to register. The presentation, questions and responses noted during the pre-proposal information session will be posted on our website with the RFP.

If your firm is qualified and experienced in performing the described services, CMAP would appreciate receiving your proposal as indicated in the RFP. The deadline for receipt of submissions in response to the RFP is **3:00 p.m., January 7, 2013.**

Thank you, and if you have any questions, please call me at (312) 386-8788.

Sincerely,

Margaret McGrath  
Grant/Contract Officer

Enclosure

**RFP NO. 097**  
**AGENT-BASED ECONOMIC EXTENSION TO MESOSCALE FREIGHT MODEL**

*The Chicago Metropolitan Agency for Planning (CMAP) invites appropriate individuals, firms, organizations, or institutions to submit proposals to provide an agent-based economic extension to CMAP's mesoscale freight model as described in this Request for Proposals (RFP). Please read each section carefully for information regarding the proposal and submittal instructions.*

**SECTION 1: Background and General Information**

**About CMAP**

The Chicago Metropolitan Agency for Planning (CMAP) is the official regional planning organization for the northeastern Illinois counties of Cook, DuPage, Kane, Kendall, Lake, McHenry, and Will. CMAP developed and now guides the implementation of GO TO 2040, metropolitan Chicago's first comprehensive regional plan in more than 100 years. To address anticipated population growth of more than 2 million new residents, GO TO 2040 establishes coordinated strategies that help the region's 284 communities address transportation, housing, economic development, open space, the environment, and other quality-of-life issues. See [www.cmap.illinois.gov](http://www.cmap.illinois.gov) for more information.

**Background/Statement of Purpose**

In June 2010, CMAP published its [Strategic Plan for Advanced Modeling](#). With the goal of implementing this strategic plan incrementally over a 10 year period, CMAP is developing advanced travel model components in response to agency planning and policy priorities.

Chapter 12 of [GO TO 2040](#) recommends strategies for improving the performance of the Chicago region's freight system. These strategies include infrastructure, financing and public policy actions, all of which are reliant on quality technical evaluations of alternative planning strategies. In addition to goals for reducing delay and introducing efficient freight network logistics, the effect of these strategies on the Chicago region's position in the global freight economy is of significant interest.

In 2011, CMAP launched its advanced freight model by demonstrating how Chicago regional commodity flows interact with the global logistics and supply chain system. This "mesoscale" freight model employs microsimulation to disaggregate data from FHWA's Freight Analysis Framework and other sources to produce detailed shipper/receiver shipment records for use in industry-sector and transportation system analysis. This application in its current form, however, is limited to existing data sources. A systematic and theoretically robust method for developing alternative future scenarios is needed to make the model useful for evaluating planning and policy scenarios related to freight infrastructure investment and economic development pursuits.

On August 31, 2012, CMAP conducted a one-day [Symposium on Advanced Modeling](#) in which a panel of national experts advised on practical new directions for our advanced modeling program. One of the topics discussed was [An Agent-based Computational Economic \(ACE\) extension to CMAP's Mesoscale Freight Model](#). While an assessment of the full econometric sensitivity to global market conditions is far beyond our computational capacity and data resources, a simple aggregate factoring of existing conditions is likewise far beneath the sensitivities permitted by the microsimulation approach currently in place.

The purpose of this RFP is to extend CMAP's current freight modeling application to include a means for preparing future freight scenarios sensitive to distinct conditions at the global scale and explicit policy interventions from within the CMAP region. Additional documentation of our progress in this area can be found in our [Meso-Scale Freight Model Final Report](#) and [a follow-up study](#) conducted by FHWA. The modeling code can be obtained at [ftp://ftp.cmap.illinois.gov/pub/Tour-Based and Supply Chain Freight Model/](ftp://ftp.cmap.illinois.gov/pub/Tour-Based_and_Supply_Chain_Freight_Model/). (id=cmapftpro, pw=cmapread).

CMAP anticipates that the ideal project team may be composed of a firm, several firms, organizations and/or individuals. CMAP intends to enter a contract with a designated lead firm for the project. This firm may propose partnerships with other firms or organizations with complementary expertise to ensure that all qualifications are met. The lead firm, however, is ultimately responsible for timely delivery of quality products and all other contractual obligations.

Proposals that include the use of subcontractors must identify one lead firm and clearly identify, with an organizational chart, any and all contributing firms, organizations and individuals. Proposing leader firms must clearly define the roles and responsibilities for themselves and any and all subcontractor(s). The leader firm is solely responsible for any and all sub-contractual business arrangements. The subcontractors will have no legal or contractual recourse to the Chicago Metropolitan Agency for Planning.

**General Information**

As a result of responses to this RFP, CMAP plans to review submissions and conduct interviews with selected consultants it determines can best meet the requirements outlined below. Negotiations will be held as necessary to select the contractor that CMAP believes can best satisfy its requirements at rates it perceives are reasonable for the services provided. Subject to "Reservation of Rights" below, it is anticipated the term of the contract will be for a period ending June 2015.

## SECTION 2: Scope of Project and Procurement Details

### Scope of Services

All proposals should address the full scope of services.

#### Task 1: Design a framework for preparing future freight scenarios

Deliverable: A report elaborating the proposed method, information requirements and mechanics of defining future freight scenarios in the context of CMAP's mesoscale Freight model. The report should address the following:

- How, and to what extent, can an agent-based computational economic approach be incorporated into the forecasting method?
- Can modeling the personal activity networks of business agents be applied to predict the economic outcome of shipper-carrier-receiver interactions?
- How shall a manageable typology of agents be defined?
- How shall economic outcomes be applied to current mesoscale model inputs?
- How shall outcomes from the respective models be equilibrated?

Timetable: The design report must be completed by June 30, 2013. The consultant project manager will present the proposal to an online webinar composed of peers and will respond to questions, comments and suggestions

#### Task 2: Develop a working demonstration extending the capability of the current model

Deliverable: A functioning computational demonstration of an agent-based extension to CMAP's mesoscale freight model that introduces a systematic sensitivity of regional freight performance to exogenous determinants of demand. The extension must systematically predict choices made by a typology of key agents within the global supply chain and account for the effects of their decisions on the data inputs and parameters at work in the mesoscale freight model.

Timetable: A functioning agent-based economic model will be completed and available for use at CMAP by June 30, 2014.

#### Task 3: Sensitivity testing of the combined modeling framework

Deliverable: Testing of five planning scenarios covering a range of exogenous conditions and the effect of internal policies. Examples might be:

- Completion of Chicago's CREATE program
- Introduction of a dedicated truck network in Chicago
- Introduction of a large intermodal facility in Iowa
- Expansion of Port of Prince Rupert, BC
- Changes in the volume of international trade with China

These are just examples. Proposals may suggest alternate sensitivity testing approaches.

Timetable: The integrated agent-based economic extension to the mesoscale freight model will be completed and available for use at CMAP by March 30, 2015.

#### Task 4: Final Documentation and technical support

Deliverable: The final months of the contract period are reserved for preparing final documentation and providing technical support to CMAP staff in using the new product. Required documents include: a final report documenting the research effort, findings, data summaries and recommended next steps; and a user guide giving step-by-step instructions for interpreting and executing the code, data development and maintenance requirements and hardware and software needs. All documentation should be prepared and edited to a high professional standard. Acceptance of final documentation within the contract period is a condition of final invoice approval.

Timetable: Final documentation will be completed to a standard acceptable by CMAP by June 30, 2015.

### Licensing and Ownership of applications developed

CMAP will retain ownership of all application code, files, data and other artifacts developed during the consulting engagement.

### Visual Identity

CMAP has carefully established its visual branding to reflect the agency's identity and priorities. The selected contractor must work within that established graphical framework, in consultation with the CMAP project manager and communications staff. See <http://goo.gl/MW1ut> for specifications, including graphics, typography, and usage.

### **Selection Process Schedule**

November 26, 2012	Issue RFP
January 7, 2013	Deadline for proposal submission
January 22-23, 2013	Interviews, if necessary
February 13, 2013	Approval of consultants by CMAP Board
March, 2013	Expected date Contract begins

### **Evaluation Criteria**

All proposals submitted in response to this RFP will be reviewed and analyzed for completeness and cost effectiveness. The following criteria will be used in evaluating proposals:

- Quality of the proposal's independent articulation of the scope of work,
- Quality of the proposal's demonstrated understanding of CMAP's objectives for advanced modeling practice and our strategy for implementation.
- Quality of the proposal's demonstration of familiarity with the modeling problem as it applies to the Chicago region.
- Quality of the team's professional and technical capacity to address the problem and deliver high-quality technical products and professional documentation.
- Cost to CMAP.

All timely responses received to this RFP will be reviewed and interviews may be conducted with selected submitters CMAP determines can best meet the above requirements. Cost will be evaluated against the other factors based upon the professional judgment of those involved in the evaluation. An in-house CMAP committee will make the selection decision. Bidders who are deemed most responsive may be asked to answer questions from the committee.

As applicable, hourly rates for personnel the submitter proposes to use will be requested and negotiations will be held as necessary to select the firm that CMAP believes can best satisfy its requirements at rates it perceives are reasonable for the services provided. CMAP will then negotiate a scope of work and contract with the firm judged to be most qualified to conduct this work.

## SECTION 3: Submittal Requirements

Proposals must be received at CMAP on or before 3:00 p.m. Monday, January 7, 2013

**Submissions must include the following and be submitted in the order presented:**

### **Team Description**

Provide a brief description of the team organization. Include background information on the supporting firm(s), organizations or individuals and describe the team's structure for leadership, support and accountability. List any subcontractors as well.

### **Team Qualification**

Provide a brief description of each firm's organization, experience, services and staff. Specifically highlight the individuals who will be managing this project and supervising the team. Include a narrative describing the team's combined qualifications and strengths. Included should be an explanation of each team member's role and his/her individual qualifications. Also include curriculum vitae for each team member that briefly outlines their education, experience and relevant skills. Please do not include lists of publications or previous projects unless they are directly relevant to this scope of work.

### **Proposed Research Content**

The proposal must include discussion of the following items for purposes of demonstrating sufficient understanding of the problem and the knowledge capacity to succeed.

- The proposal should demonstrate a thorough understanding of the principles and mechanics of applying agent-based modeling to develop alternative inputs for the CMAP mesoscale freight model.
- The proposal should articulate a proposed data processing scheme appropriate to the scale of Chicago's position in the global freight economy.
- The proposal should specify which extant or new data resources will be required to implement the working demonstration.
- The proposal should outline the means by which outcomes from an agent-based economic choice model are to be translated into scenario model inputs for the CMAP mesoscale model.

### **Proposed Work Plan and Schedule**

The work plan should describe the technical methods, data and computing resources needed to succeed. In the event that the proposal will require CMAP to acquire additional computing equipment, license special software, or purchase proprietary data, the costs and means of doing so should be elaborated. The work plan should also include an estimate of the time required for the team to complete the required work. The work plan must specify the time and personnel associated with accomplishing each task and preparing each deliverable.

### **References**

Provide the name and contact information for the staff project manager of a previous client who is willing and able to comment on the proposed project manager's ability to produce a quality professional product on time and within budget. Only one reference should be provided that meets these criteria. References will be contacted at CMAP's discretion.

### **Forms**

A completed "Price Proposal Form"-Attachment 1 should be submitted. The submitter shall also sign and submit the "Certificate Regarding Workers' Compensation Insurance" – Attachment 2, and the "Information to be provided by Bidder" – Attachment 3.

**Submission of Proposals**

Three (3) paper copies of all proposals as well as one (1) electronic version in PDF format on CD ROM must be submitted no later than 3:00 p.m., January 7, 2013. Submissions must be in a sealed package or envelope. The applicant's organization name and address shall appear in the upper left corner of the package.

Submission of RFP by fax or e-mail is not acceptable. Submissions may be delivered to CMAP in person or sent (by U.S. Postal Service or other reliable means) to the following address:

Chicago Metropolitan Agency for Planning  
Attn: Grant/Contract Officer  
Response to RFP No. 097  
233 S. Wacker Drive, Suite 800  
Chicago, IL 60606

There will be no public opening for this RFP. Late submissions will be rejected and returned unopened. Questions may be referred to Margaret McGrath, (312) 386-8788 or Email: [mmcgrath@cmaphillinois.gov](mailto:mmcgrath@cmaphillinois.gov).

## SECTION 4: Contractual Agreement and Rights

### Contractual Agreement

The contract CMAP anticipates awarding as a result of this RFP and subsequent rate submissions and negotiations, if any, will indicate the service requirements, time periods involved and applicable hourly rates. In addition, it will include the General Provisions, Section 5 hereto, and Special Provisions, Section 6 hereto, which will apply to the contract.

### Reservation of Rights

CMAP reserves the following rights if using them will be more advantageous to CMAP:

- a. Withdraw this RFP at any time without prior notice.
- b. Accept or reject any and all submissions, or any item or part thereof
- c. Postpone qualifications due date.
- d. Not award a contract to any submitter responding to this RFP.
- e. Award a contract without negotiations or discussions.

Contractors who are or have been seriously deficient in current or recent contract performance in the absence of evidence to the contrary or circumstances properly beyond the control of the Contractor shall be presumed to be unable to meet these requirements. Past unsatisfactory performance will ordinarily be sufficient to justify a finding of non-responsibility.

## SECTION 5: General Provisions

The following provisions apply to the solicitation to which this section is attached and to any contract that results from the solicitation:

### 1. Complete Agreement.

- a. This Agreement (which also may be herein referred to as "Contract"), including all exhibits and other documents incorporated or referenced in the agreement, constitutes the complete and exclusive statement of the terms and conditions of the agreement between CMAP and Contractor and it supersedes all prior representations, understandings and communications. The invalidity in whole or in part of any term or condition of this Agreement shall not affect the validity of other terms or conditions.
- b. Order of Precedence: Conflicting provisions hereof, if any, shall prevail in the following descending order of precedence: (1) the provisions of the executed contract, including its exhibits; (2) the provisions of the RFP on which the contract is based including any and all Addendums; (3) the proposal submitted to CMAP by the Contractor in response to said RFP; and (4) any other documents cited or incorporated herein by reference.
- c. CMAP's failure to insist in any one or more instances upon the performance of any terms or conditions of this Agreement shall not be construed as a waiver or relinquishment of CMAP's right to such performance by Contractor or to future performance of such terms or conditions and Contractor's obligation in respect thereto shall continue in full force and effect. Contractor shall be responsible for having taken steps reasonably necessary to ascertain the nature and location of the work, and the general and local conditions that can affect the work or the cost thereof. Any failure by Contractor to do so will not relieve it from responsibility for successfully performing the work without additional expense to CMAP.
- d. CMAP assumes no responsibility for any understanding or representations made by any of its officers, employees or agents prior to the execution of this Agreement, unless such understanding or representations by CMAP are expressly stated in this Agreement.
- e. Changes: CMAP may from time to time order work suspension or make any change in the general scope of this Agreement including, but not limited to changes, as applicable, in the drawings, specifications, delivery schedules or any other particular of the description, statement of work or provisions of this Agreement. If any such change



causes an increase or decrease in the cost or time required for performance of any part of the work under this Agreement, the Contractor shall promptly notify CMAP thereof and assert its claim for adjustment within thirty (30) days after the change is ordered. A written amendment will be prepared for agreement between CMAP and the Contractor for changes in scope, time and/or costs. No amendments are effective until there is a written agreement that has been signed by both parties. No claim by the Contractor for equitable adjustment hereunder shall be allowed if asserted after final payment under this Agreement.

- f. Changes to any portion of this Agreement shall not be binding upon CMAP except when specifically confirmed in writing by an authorized representative of CMAP.
2. Chicago Metropolitan Agency for Planning Designee. Only the Executive Director of CMAP, or designee, shall have the authority to act for and exercise any of the rights of CMAP as set forth in this Agreement, subsequent to and in accordance with the authority granted by CMAP's Board of Directors.
3. Allowable Charges. No expenditures or charges shall be included in the cost of the Project and no part of the money paid to the Contractor shall be used by the Contractor for expenditures or charges that are: (i) contrary to provisions of this Agreement or the latest budget approved by a duly-authorized official of CMAP; (ii) not directly for carrying out the Project; (iii) of a regular and continuing nature, except that of salaries and wages of appointed principal executives of the Contractor who have not been appointed specifically for the purposes of directing the Project, who devote official time directly to the Project under specific assignments, and respecting whom adequate records of the time devoted to and services performed for the Project are maintained by the Contractor may be considered as proper costs of the Project to the extent of the time thus devoted and recorded if they are otherwise in accordance with the provisions hereof; or (iv) incurred without the consent of CMAP after written notice of the suspension or termination of any or all of CMAP's obligations under this Agreement.
4. Reports and Methods of Payment.
  - a. Based on services performed, Contractor may submit invoices as frequently as once a month. CMAP is committed to reducing paper use and has established an electronic invoicing system. All invoices are to be submitted through email to:  

[accounting@cmap.illinois.gov](mailto:accounting@cmap.illinois.gov)
  - b. Subject to the conditions of this Agreement, CMAP will honor invoices in amounts deemed by it to be proper to insure the carrying out of the approved scope of services and shall be obligated to pay the Contractor such amounts as may be approved by CMAP. Invoices shall detail expenses and amount of time spent on CMAP assignments. If an invoice is not acceptable, CMAP shall promptly provide the Contractor a written statement regarding its ineligibility or deficiencies to be eliminated prior to its acceptance and processing.
  - c. All payments will be transferred electronically to Contractor's business bank account. The successful Contractor will be requested to provide transfer numbers for the business bank account when the contract is finalized.
5. Audit and Access to Records.
  - a. The Contractor and its subcontracts under this Agreement shall preserve and produce upon request of the authorized representatives of CMAP all data, records, reports, correspondence and memoranda of every description of the Contractor and its subcontractors, if any, under this Agreement relating to carrying out this Agreement for the purposes of an audit, inspection or work review for a period of three (3) years after completion of the project, except that:
    - (1) If any litigation, claim or audit is started before the expiration of three-year period, the records shall be retained until all litigation, claims or audit findings involving the records have been resolved.
    - (2) Records for nonexpendable property acquired with federal funds shall be retained for three (3) years after its final disposition.

- b. The Contractor shall include in all subcontracts, if any, under this Agreement a provision that CMAP will have full access to and the right to examine any pertinent books, documents, papers, and records of any such subcontractor involving transactions related to the subcontract for three (3) years from the final payment under that subcontract except that:
  - (1) If any litigation, claim or audit is started before the expiration of the three-year period, the records shall be retained until all litigation, claims or audit findings involving the records have been resolved.
  - (2) Records for nonexpendable property acquired with federal funds shall be retained for three (3) years after its final disposition.

The term "subcontract" as used in this clause excludes purchase orders not exceeding \$2,500.

- 6. Suspension. If the Contractor fails to comply with the special conditions and/or the general terms and conditions of this Agreement, CMAP may, after written notice to the Contractor, suspend the Agreement and withhold further payments or prohibit the Contractor from incurring additional obligations of funds pending corrective action by the Contractor. If corrective action has not been completed within sixty (60) calendar days after service of written notice of suspension, CMAP shall notify the Contractor in writing that the Agreement has been terminated by reason of default in accordance with paragraph 11 hereof. CMAP may determine to allow such necessary and proper costs which the Contractor could not reasonably avoid during the period of suspension provided such costs meet the provisions of the U.S. Office Management and Budget Circular A-87 in effect on the date first above written.

7. Termination.

- a. This Agreement may be terminated in whole or in part in writing by either party in the event of substantial failure (hereinafter termed "Termination by Default") by the other party to fulfill its obligations under this Agreement through no fault of the terminating party, provided that no such termination may be affected unless the other party is given (i) not less than seven (7) calendar days written notice (delivered by certified mail, return receipt requested) of intent to Termination by Default, and (ii) an opportunity for consultation with the terminating party prior to Termination by Default.
- b. This Agreement may be terminated in whole or in part in writing by CMAP for its convenience (hereinafter termed "Termination for Convenience"), provided that the Contractor is given not less than seven (7) calendar days written notice (delivered by certified mail, return receipt requested) of intent to terminate.
- c. If Termination by Default is effected by CMAP, an equitable adjustment in the price provided for in this Agreement shall be made, but (i) no amount shall be allowed for anticipated profit on unperformed services or other work, and (ii) any payment due to the Contractor at the time of termination may be adjusted to the extent of any additional costs occasioned to CMAP by reason of the Contractor's default. If Termination by Default is effected by the Contractor, or if Termination for Convenience is effected by CMAP, the equitable adjustment shall include a reasonable profit for services or other work performed. The equitable adjustment for any termination shall provide payment to the Contractor for services rendered and expenses incurred prior to termination, in addition CMAP may include cost reasonably incurred by the Contractor relating to commitments which had become firm prior to termination.
- d. Upon notice of termination action pursuant to paragraphs (a) or (b) of this clause, the Contractor shall (i) promptly discontinue all services affected (unless the notice directs otherwise) and (ii) deliver or otherwise make available to CMAP all data, drawings, specifications, reports, estimates, summaries and such other information and materials as may have been accumulated by the Contractor in performing this Agreement, whether completed or in process.
- e. Upon termination pursuant to paragraphs (a) or (b) of this clause, CMAP may take over the work and prosecute the same to completion by agreement with another party otherwise.

- f. In the event the Contractor must terminate this Agreement due to circumstances beyond its control, the termination shall be deemed to have been effected for the convenience of CMAP. In such event, adjustment of the price provided for in this Agreement shall be made as provided in paragraph c of this clause.
8. Remedies. Except as may be otherwise provided in this Agreement, all claims, counterclaims, disputes and other matters in question between CMAP and the Contractor arising out of or relating to this Agreement or the breach thereof will be decided by arbitration. If the parties hereto mutually agree, a request for remedy may be sought from a court of competent jurisdiction within the State of Illinois, County of Cook.
9. Equal Employment Opportunity. The Contractor will comply with Executive Order 11246 entitled "Equal Employment Opportunity," as amended by U.S. Department of Labor regulations (41 CFR Part 60). In connection with the execution of this Agreement, the Contractor shall not discriminate against any employee or an applicant for employment because of race, religion, color, sex, national origin, ancestry, or physical or mental handicap unrelated to ability. The Contractor shall take affirmative actions to insure that applicants are employed and that employees are treated during their employment without regard to their race, religion, color, sex, national origin, ancestry, or physical or mental handicap unrelated to ability. Such actions shall include, but not be limited to, employment, promotion, demotion, transfer, recruitment, recruitment advertising, layoff, termination, rates of pay, other forms of compensation, and selection for training or apprenticeship. The Contractor shall cause the provisions of this paragraph to be inserted into all subcontractors work covered by this Agreement so that such provisions will be binding upon each subcontractor, provided that such provisions shall not apply to contracts or subcontracts for standard commercial supplies or raw materials.
10. Small and Minority Business Enterprise. In connection with the performance of this Agreement the Contractor will cooperate with CMAP in meeting its commitments and goals with respect to the maximum utilization of small business and minority business enterprises, and will use its best efforts to insure that small business and minority business enterprises shall have the maximum practicable opportunity to compete for subcontract work under this Agreement.
11. Political Activity. No portion of funds for this subcontract shall be used for any partisan political activity or to further the election or defeat of any candidate for public office.
12. Prohibited Interest.
- a. No officer or employee of CMAP and no member of its governing body and no other public official of any locality in which the Project objectives will be carried out who exercises any functions or responsibilities in the review or approval of the undertaking or carrying out of such objectives shall (i) participate in any decision relating to any subcontract negotiated under this Agreement which affects his personal interest or the interest of any corporation, partnership or association in which he is, directly or indirectly, interested; or (ii) have any financial interest, direct or indirect, in such subcontract or in the work to be performed under such contract.
  - b. No member of or delegate of the Illinois General Assembly or the Congress of the United States of America, and no federal Resident Commissioner, shall be admitted to any share hereof or to any benefit arising herefrom.
  - c. The Contractor warrants and represents that no person or selling agency has been employed or retained to solicit or secure this Agreement, upon an agreement or understanding for a commission, percentage, bonus, brokerage or contingent fee, or gratuity, excepting its bona fide employees. For breach or violation of this warranty CMAP shall have the right to annul this Agreement without liability or, at its discretion, to deduct from the Agreement price or consideration, or otherwise recover, the full amount of such commission, percentage bonus, brokerage or contingent fee, or gratuity.
13. Patents and Copyright Responsibility.
- a. The Contractor agrees that any material or design specified by the Contractor or supplied by the Contractor pursuant to this Agreement shall not infringe any patent or copyright and the Contractor shall be solely responsible for securing any necessary licenses required for patented or copyrighted material used by the Contractor.

- b. If any claim is brought against CMAP by third parties for alleged infringement of third-party patent and copyright and intellectual rights, which claim is caused by breach of the Contractor's promise as contained in paragraph a of this clause, the Contractor shall save harmless and indemnify CMAP from all loss, damage or expense (including attorney's fees) due to defending CMAP from such claim.
- c. If the principal purpose of this Agreement is to create, develop or improve products, processes or methods; or to explore into fields which directly concern public health, safety or welfare, or if the Project is in a field of science or technology in which there has been little significant experience outside of work funded by federal assistance; and any discovery or invention arises or is developed in the course of or under this Agreement, such invention or discovery shall be subject to the reporting and rights provisions of U.S. Office of Management and Budget Circular No. A-102, and to the pertinent regulations of the grantor agency(ies) in effect on the date of execution of this Agreement. The Contractor shall include provisions appropriate to effectuate the purpose of this condition in all subcontracts under this Agreement involving research, developmental, experimental or demonstration work.

14. Assignment.

- a. This agreement shall be binding upon, and inure to the benefit of, the respective successors, assigns, heirs, and personal representatives of CMAP and Contractor. Any successor to the Contractor's rights under this Agreement must be approved by CMAP unless the transaction is specifically authorized under federal law. Any successor will be required to accede to all the terms, conditions and requirements of the Agreement as a condition precedent to such succession.
- b. The Contractor shall not assign any interest in this Agreement and shall not transfer any interest in the same (whether by assignment or novation), without the prior written consent of CMAP hereto, provided, however, that claims for money due or to become due to the Contractor from CMAP under this Agreement may be assigned to a bank, trust company or other financial institution without such approval. Notice of any such assignment or transfer shall be furnished to CMAP.

15. Subcontracts.

- a. Any subcontractors or outside associates or contractors required by the Contractor in connection with the services covered by this Agreement will be limited to such individuals or firms as were specifically identified and agreed to during negotiations. Any substitutions in or additions to such subcontractors, associates or contractors will be subject to the prior approval of CMAP.
- b. All subcontracts for work under this Agreement shall contain those applicable provisions which are required in this Agreement.
- c. The Contractor may not subcontract services agreed to under this Agreement without prior written approval of CMAP.

16. Conflict of Interest. In order to avoid any potential conflict or interest, the Contractor agrees during the term of this Agreement not to undertake any activities which could conflict directly or indirectly with the interest of CMAP. Contractor shall immediately advise CMAP of any such conflict of interest. CMAP shall make the ultimate determination as to whether a conflict of interest exists.

17. Ownership of Documents/Title of Work. All documents, data and records produced by the Contractor in carrying out the Contractor's obligations and services hereunder, without limitation and whether preliminary or final, shall become and remain the property of CMAP. CMAP shall have the right to use all such documents, data and records without restriction or limitation and without additional compensation to the Contractor. All documents, data and records utilized in performing research shall be available for examination by CMAP upon request. Upon completion of the services hereunder or at the termination of this Agreement, all such documents, data and records shall, at the option of CMAP, be appropriately arranged, indexed and delivered to CMAP by the Contractor.

18. Software. All software, related computer programs, and source code produced and developed by the Contractor (or authorized contractor or subcontractor thereof) in carrying out the Contractor's obligation hereunder, without limitation

and whether preliminary or final, shall become and remain the property of both CMAP and the Contractor. CMAP shall be free to sell, give, offer or otherwise provide said software and related computer programs to any other agency, department, commission, or board of the State of Illinois, as well as any other agency, department, commission, board, or other governmental entity of any country, state, county, municipality, or any other unit of local government or to any entity consisting of representative of any unit of government, for official use by said entity. Additionally, CMAP shall be free to offer or otherwise provide said software and related computer programs to any current or future contractor.

CMAP agrees that any entity to whom the software and related computer programs will be given, sold or otherwise offered shall be granted only a use license, limited to use for official or authorized purposes, and said entity shall otherwise be prohibited from selling, giving or otherwise offering said software and related computer programs without the written consent of both CMAP and the Contractor.

19. Publication. CMAP shall have royalty-free, nonexclusive and irrevocable license to reproduce, publish, disclose, distribute, and otherwise use, in whole or in part, any reports, data or other materials specifically prepared under this Agreement, and to authorize other material to do so. The Contractor shall include provisions appropriate to effectuate the purpose of this clause in all subcontracts for work under this Agreement.
20. Identification of Documents. All reports, maps, and other documents completed as part of this Agreement, other than documents exclusively for internal use within the Contractor's offices, shall carry the following notation on the front cover or a title page or, in the case of maps, in the same area which contains the name of CMAP and of the Contractor. "This material was prepared in consultation with CMAP, the Chicago Metropolitan Agency for Planning, (<http://www.cmap.illinois.gov>)."
21. Force Majeure. Either party shall be excused from performing its obligations under this Agreement during the time and to the extent that it is prevented from performing by a cause beyond its control including, but not limited to: any incidence of fire, flood; acts of God; commandeering of material, products, plants or facilities by the Federal, state or local government; national fuel shortage; or a material act of omission by the other party; when satisfactory evidence of such cause is presented to the other party, and provided further that such nonperformance is unforeseeable, beyond the control and is not due to the fault or negligence of the party not performing.
22. Workers' Compensation Insurance. The Contractor and any subcontractors shall, at their own expense, obtain and maintain Workers' Compensation insurance to cover persons employed in connection with services under this agreement. The limits for the Worker's Compensation coverage shall be no less than the statutory limits required by the State of Illinois. A certificate of insurance must be included with this contract.
23. Independent Contractor. Contractor's relationship to CMAP in the performance of this Agreement is that of an independent contractor. Contractor's personnel performing work under this Agreement shall at all times be under Contractor's exclusive direction and control and shall be employees of Contractor and not employees of CMAP. Contractor shall pay all wages, salaries and other amounts due its employees in connection with this Agreement and shall be responsible for all reports and obligations respecting them, including, but not limited to, social security, income tax withholding, unemployment compensation, workers' compensation insurance and similar matters.
24. Federal, State and Local Laws. Contractor warrants that in the performance of this Agreement it shall comply with all applicable federal, state and local laws, statutes and ordinances and all lawful orders, rules and regulations promulgated thereunder. Since laws, regulations, directives, etc. may be modified from time-to-time, the Contractor shall be responsible for compliance as modifications are implemented. The Contractor's failure to comply shall constitute a material breach of this contract.
25. Hold Harmless and Indemnity. Contractor shall indemnify, defend and hold harmless CMAP, its officers, directors, employees and agents from and against any and all claims (including attorney's fees and reasonable expenses for litigation or settlement) for any loss, or damages, bodily injuries, including death, damage to or loss of use of property caused by the negligent acts, omissions or willful misconduct of Contractor, its officers, directors, employees, agents, subcontractors or suppliers, in connection with or arising out of the performance of this Agreement.

26. Equal Employment Opportunities -- Affirmative Action Sexual Harassment. Contractor must comply with the Illinois Board of Human Rights Act and rules applicable to public funds, including equal employment opportunity, refraining from unlawful discrimination, and having written sexual harassment policies (775 ILCS 5/2-105).
27. International Boycott. Contractor certifies that neither Contractor nor any substantially owned affiliate is participating or shall participate in an international boycott in violation of the U.S. Export Administration Act of 1979 or the applicable regulation of the U.S. Department of Commerce. This applies to contracts that exceed \$10,000 (30 ILCS 582).
28. Forced Labor. Contractor certifies it complies with the State Prohibition of Goods from Forced Labor Act, and certifies that no foreign-made equipment, materials, or supplies furnished to CMAP under this agreement have been or will be produced in whole or in part by forced labor, or indentured labor under penal sanction (30 ILCS 583).

### **Federally Funded Agreements**

- A. **Standard Assurances**. The Contractor assures that it will comply with all applicable federal statutes, regulations, executive orders, Federal Transit Administration (FTA) circulars, and other federal requirements in carrying out any project supported by federal funds. The Contractor recognizes that federal laws, regulations, policies, and administrative practices may be modified from time to time and those modifications may affect project implementation. The Contractor agrees that the most recent federal requirements will apply to the project.
- B. **Certification Regarding Lobbying**. As required by the United States Department of Transportation (U.S. DOT) regulations, "New Restrictions on Lobbying," at 49 CFR 20.110, the Contractor's authorized representative certifies to the best of his or her knowledge and belief that for each agreement for federal assistance exceeding \$100,000:
1. No federal appropriated funds have been or will be paid by or on behalf of the Contractor to any person to influence or attempt to influence an officer or employee of any federal agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress regarding the award of federal assistance, or the extension, continuation, renewal, amendment, or modification of any federal assistance agreement; and
  2. If any funds other than federal appropriated funds have been or will be paid to any person to influence or attempt to influence an officer or employee of any federal agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with any application for federal assistance, the Contractor assures that it will complete and submit Standard Form-LLL, "Disclosure Form to Report Lobbying," including information required by the instructions accompanying the form, which form may be amended to omit such information as authorized by 31 U.S.C. 1352.
  3. The language of this certification shall be included in the award documents for all subawards at all tiers (including subcontracts, subgrants, and contracts under grants, loans, and cooperative agreements).

The Contractor understands that this certification is a material representation of fact upon which reliance is placed and that submission of this certification is a prerequisite for providing federal assistance for a transaction covered by 31 U.S.C. 1352. The Contractor also understands that any person who fails to file a required certification shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure.

- C. **Nondiscrimination Assurance**. As required by 49 U.S.C. 5332 (which prohibits discrimination on the basis of race, color, creed, national origin, sex, or age, and prohibits discrimination in employment or business opportunity), Title VI of the Civil Rights Act of 1964, as amended, 42 U.S.C. 2000d, and U.S. DOT regulations, "Nondiscrimination in Federally-Assisted Programs of the Department of Transportation--Effectuation of Title VI of the Civil Rights Act," 49 CFR Part 21 at 21.7, the Contractor assures that it will comply with all requirements of 49 CFR Part 21; FTA Circular 4702.1A, "Title VI and Title VI - Dependent Guidelines for Federal Transit Administration Recipients," and other applicable directives, so that no person in the United States, on the basis of race, color, national origin, creed, sex, or age will be excluded from participation in, be denied the benefits of, or otherwise be subjected to discrimination in any program or activity (particularly in the level and quality of transportation services and transportation-related benefits) for which the Contractor receives federal assistance.

Specifically, during the period in which federal assistance is extended to the project, or project property is used for a purpose for which the federal assistance is extended or for another purpose involving the provision of similar services or benefits, or as long as the Contractor retains ownership or possession of the project property, whichever is longer, the Contractor assures that:

1. Each project will be conducted, property acquisitions will be undertaken, and project facilities will be operated in accordance with all applicable requirements of 49 U.S.C. 5332 and 49 CFR Part 21, and understands that this assurance extends to its entire facility and to facilities operated in connection with the project.
  2. It will promptly take the necessary actions to effectuate this assurance, including notifying the public that complaints of discrimination in the provision of transportation-related services or benefits may be filed with U.S. DOT or FTA. Upon request by U.S. DOT or FTA, the Contractor assures that it will submit the required information pertaining to its compliance with these requirements.
  3. It will include in each subagreement, property transfer agreement, third party contract, third party subcontract, or participation agreement adequate provisions to extend the requirements of 49 U.S.C. 5332 and 49 CFR Part 21 to other parties involved therein including any subrecipient, transferee, third party contractor, third party subcontractor at any level, successor in interest, or any other participant in the project.
  4. Should it transfer real property, structures, or improvements financed with federal assistance to another party, any deeds and instruments recording the transfer of that property shall contain a covenant running with the land assuring nondiscrimination for the period during which the property is used for a purpose for which the federal assistance is extended or for another purpose involving the provision of similar services or benefits.
  5. The United States has a right to seek judicial enforcement with regard to any matter arising under the Act, regulations, and this assurance.
  6. It will make any changes in its 49 U.S.C. 5332 and Title VI implementing procedures as U.S. DOT or FTA may request.
- D. **Control of Property.** The Contractor certifies that the control, utilization and disposition of property or equipment acquired using federal funds is maintained according to the provisions of OMB Circular A 102 Common Rule.
- E. **Cost Principles.** The cost principles of this Agreement are governed by the cost principles found in 49 CFR Part 18.22, and all costs included in this Agreement are allowable under 49 CFR Part 18.22.
- F. **Debarment.** The Contractor shall comply with Debarment provisions as contained in 2 CFR Part 1200, as amended. The Contractor certifies that to the best of its knowledge and belief, the Contractor and the Contractor's principals: a) are not presently debarred, suspended, proposed for debarment, declared ineligible or voluntarily excluded from covered transactions by any federal department or agency; b) within a three-year period preceding this Agreement have not been convicted of or had a civil judgment rendered against it for commission of fraud or a criminal offense in connection with obtaining, attempting to obtain or performing a public (federal, state or local) transaction or contract under a public transaction, violation of federal or state anti-trust statutes or commission of embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statements or receiving stolen property; c) are not presently indicted for or otherwise criminally or civilly charged by a governmental entity (federal, state or local) with commission of any of the offenses enumerated in subsection (b), above; and d) have not within a three-year period preceding this Agreement had one or more public transactions (federal, state or local) terminated for cause or default.

The inability of the Contractor to certify to the certification in this section will not necessarily result in denial of participation in this Agreement. The Contractor shall submit an explanation of why it cannot provide the certification in this section. This certification is a material representation of fact upon which reliance was placed when CMAP determined whether to enter into this transaction. If it is later determined that the Contractor knowingly rendered an erroneous certification, in addition to other remedies available to the federal government, CMAP may terminate this Agreement for cause. The Contractor shall provide immediate written notice to CMAP if at any time the Contractor learns that its certification was erroneous when submitted or has become erroneous by reason of changed circumstances. The terms "covered transaction," "debarred," "suspended," "ineligible," "lower tier covered transaction," "participant," "person," "primary covered transaction," "principal," "proposal," and

“voluntarily excluded,” as used in this Part shall have the meaning set out in the Definitions and Coverage sections of the rules implementing Executive Order 12549.

The Contractor agrees that it shall not knowingly enter into any lower tier covered transaction with a person who is debarred, suspended, declared ineligible or voluntarily excluded from participation in this covered transaction, unless authorized, in writing, by CMAP. The Contractor agrees that it will include the clause titled “Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion-Lower Tier Covered Transaction,” provided by CMAP, without modification, in all lower tier covered transactions and in all solicitations for lower tier covered transactions. The Contractor may rely upon a certification of a prospective participant in a lower tier covered transaction that it is not debarred, suspended, ineligible or voluntarily excluded from the covered transaction, unless the Contractor knows the certification is erroneous. The Contractor may decide the method and frequency by which it determines the eligibility of its principals. The Contractor may, but is not required to, check the Non-procurement List. If the Contractor knowingly enters into a lower tier covered transaction with a person who is suspended, debarred, ineligible or voluntarily excluded from participation, in addition to other remedies available to the federal government, CMAP may terminate this Agreement for cause or default.

Nothing contained in this section shall be construed to require establishment of a system of records in order to render in good faith the certification required by this section. The knowledge and information of the Contractor is not required to exceed that which is normally possessed by a prudent person in the ordinary course of business dealings.

- G. **Single Audit.** The Single Audit Act of 1984 (Public Law 98-502) and the Single Audit Amendments of 1996 (P.L. 104-156) require the following:
1. State or local governments that receive \$500,000 or more a year in federal financial assistance shall have an audit made in accordance with the Office of Management and Budget (OMB) Circular No. A-133.
  2. State or local governments that receive less than \$500,000 a year shall be exempt from compliance with the Act and other federal requirements.
  3. Nothing in this paragraph exempts state or local governments from maintaining records of federal financial assistance or from providing access to such records to federal Agencies, as provided for in federal law or in Circular A-133 “Audits of States, Local Governments and Non-Profit Organizations.”
  4. A copy of the audit report must be submitted to CMAP within 30 days after completion of the audit, but no later than one year after the end of the Contractor’s fiscal year.
- H. **Drug Free Workplace.** The Contractor certifies that it will comply with the requirements of the federal Drug Free Workplace Act, 41 U.S.C. 702 as amended, and 49 CFR 32.
- I. **Disadvantaged Business Enterprise Assurance.** In accordance with 49 CFR 26.13(a), as amended, the Contractor assures that it shall not discriminate on the basis of race, color, national origin, or sex in the implementation of the project and in the award and performance of any third party contract, or subagreement supported with Federal assistance derived from the U.S. DOT or in the administration of its Disadvantaged Business Enterprise (DBE) program or the requirements of 49 CFR Part 26, as amended. The Contractor assures that it shall take all necessary and reasonable steps set forth in 49 CFR Part 26, as amended, to ensure nondiscrimination in the award and administration of all third party contracts and subagreements supported with Federal assistance derived from the U.S. DOT. The Contractor’s DBE program, as required by 49 CFR Part 26, as amended, will be incorporated by reference and made a part of this Agreement for any Federal assistance awarded by FTA or U.S. DOT. Implementation of this DBE program is a legal obligation of the Contractor, and failure to carry out its terms shall be treated as a violation of the Agreement. Upon notification by the Federal Government or CMAP to the Contractor of its failure to implement its approved DBE program, the U.S. DOT may impose sanctions as provided for under 49 CFR Part 26, as amended, and may in appropriate cases, refer the matter for enforcement under 18 U.S.C. 1001, as amended, and/or the Program Fraud Remedies Act, 31 U.S.C. 3801 *et seq.*, as amended.



- J. **Assurance of Nondiscrimination on the Basis of Disability.** As required by U.S. DOT regulations, "Nondiscrimination on the Basis of Handicap in Programs and Activities Receiving or Benefiting from Federal Financial Assistance," at 49 CFR 27.9, the Contractor assures that, as a condition to the approval or extension of any Federal assistance awarded by FTA to construct any facility, obtain any rolling stock or other equipment, undertake studies, conduct research, or to participate in or obtain any benefit from any program administered by FTA, no otherwise qualified person with a disability shall be, solely by reason of that disability, excluded from participation in, denied the benefits of, or otherwise subjected to discrimination in any program or activity receiving or benefiting from Federal assistance administered by the FTA or any entity within U.S. DOT. The Contractor assures that project implementation and operations so assisted will comply with all applicable requirements of U.S. DOT regulations implementing the Rehabilitation Act of 1973, as amended, 29 U.S.C. 794, *et seq.*, and the Americans with Disabilities Act of 1990, as amended, 42 U.S.C. 12101 *et seq.*, and implementing U.S. DOT regulations at 49 CFR parts 27, 37, and 38, and any applicable regulations and directives issued by other Federal departments or agencies.
- K. **Procurement Compliance Certification.** The Contractor certifies that its procurements and procurement system will comply with all applicable third party procurement requirements of Federal laws, executive orders, regulations, and FTA directives, and requirements, as amended and revised, as well as other requirements FTA may issue including FTA Circular 4220.1F, "Third Party Contracting Guidance," and any revisions thereto, to the extent those requirements are applicable. The Contractor certifies that it will include in its contracts financed in whole or in part with FTA assistance all clauses required by Federal laws, executive orders, or regulations, and will ensure that each subrecipient and each contractor will also include in its subagreements and its contracts financed in whole or in part with FTA assistance all applicable clauses required by Federal laws, executive orders, or regulations.
- L. **Intelligent Transportation Systems Program.** As used in this assurance, the term Intelligent Transportation Systems (ITS) project is defined to include any project that in whole or in part finances the acquisition of technologies or systems of technologies that provide or significantly contribute to the provision of one or more ITS user services as defined in the "National ITS Architecture."  
  1. In accordance with Section 5307(c) of SAFETEA-LU, 23 U.S.C. 502 note, the Contractor assures it will comply with all applicable requirements of Section V (Regional ITS Architecture and Section VI (Project Implementation)) of FTA Notice, "FTA National ITS Architecture Policy on Transit Projects," at 66 *Fed. Reg.* 1455 *et seq.*, January 8, 2001, and other FTA requirements that may be issued in connection with any ITS project it undertakes financed with Highway Trust Funds (including funds from the mass transit account) or funds made available for the Intelligent Transportation Systems Program authorized by SAFETEA-LU, 23 U.S.C. 502 note.
  2. With respect to any ITS project financed with Federal assistance derived from a source other than Highway Trust Funds (including funds from the Mass Transit Account) or SAFETEA-LU, 23 U.S.C. 502 note, the Contractor assures that it will use its best efforts to ensure that any ITS project it undertakes will not preclude interface with other intelligent transportation systems in the Region.
- M. **Davis-Bacon Act.** To the extent applicable, the Contractor will comply with the Davis-Bacon Act, as amended, 40 U.S.C. 3141 *et seq.*, the Copeland "Anti-Kickback" Act, as amended, 18 U.S.C. 874, and the Contract Work Hours and Safety Standards Act, as amended, 40 U.S.C. 3701 *et seq.*, regarding labor standards for federally assisted subagreements.
- N. **Certifications and Assurances Required by the U.S. Office of Management and Budget (OMB) (SF-424B and SF-424D)**  
As required by OMB, the Contractor certifies that it:  
  1. Has the legal authority and the institutional, managerial, and financial capability (including funds sufficient to pay the non-federal share of project cost) to ensure proper planning, management, and completion of the project.
  2. Will give the U.S. Secretary of Transportation, the Comptroller General of the United States, and, if appropriate, the state, through any authorized representative, access to and the right to examine all records, books, papers, or documents related to the award; and will establish a proper accounting system in accordance with generally accepted accounting standards or agency directives;
  3. Will establish safeguards to prohibit employees from using their positions for a purpose that constitutes or

- presents the appearance of personal or organizational conflict of interest or personal gain;
4. Will initiate and complete the work within the applicable project time periods;
  5. Will comply with all applicable Federal statutes relating to nondiscrimination including, but not limited to:
    - i. Title VI of the Civil Rights Act, 42 U.S.C. 2000d, which prohibits discrimination on the basis of race, color, or national origin;
    - ii. Title IX of the Education Amendments of 1972, as amended, 20 U.S.C. 1681 through 1683, and 1685 through 1687, and U.S. DOT regulations, "Nondiscrimination on the Basis of Sex in Education Programs or Activities Receiving Federal Financial Assistance," 49 CFR Part 25, which prohibit discrimination on the basis of sex;
    - iii. Section 504 of the Rehabilitation Act of 1973, as amended, 29 U.S.C. 794, which prohibits discrimination on the basis of handicap;
    - iv. The Age Discrimination Act of 1975, as amended, 42 U.S.C. 6101 through 6107, which prohibits discrimination on the basis of age;
    - v. The Drug Abuse, Prevention, Treatment and Rehabilitation Act, Public Law 92-255, and amendments thereto, 21 U.S.C. 1101 *et seq.* relating to nondiscrimination on the basis of drug abuse;
    - vi. The Comprehensive Alcohol Abuse and Alcoholism Prevention, Treatment and Rehabilitation Act of 1970, Public Law 91-616, and amendments thereto, 42 U.S.C. 4541 *et seq.* relating to nondiscrimination on the basis of alcohol abuse or alcoholism;
    - vii. The Public Health Service Act of 1912, as amended, 42 U.S.C. 290dd-2 related to confidentiality of alcohol and drug abuse patient records;
    - viii. Title VIII of the Civil Rights Act, 42 U.S.C. 3601 *et seq.*, relating to nondiscrimination in the sale, rental, or financing of housing;
    - ix. Any other nondiscrimination provisions in the specific statutes under which Federal assistance for the project may be provided including, but not limited, to 49 U.S.C. 5332, which prohibits discrimination on the basis of race, color, creed, national origin, sex, or age, and prohibits discrimination in employment or business opportunity, and Section 1101(b) of the Transportation Equity Act for the 21st Century, 23 U.S.C. 101 note, which provides for participation of disadvantaged business enterprises in FTA programs; and
    - x. Any other nondiscrimination statute(s) that may apply to the project.
  6. Will comply with all federal environmental standards applicable to the project, including but not limited to:
    - xi. Institution of environmental quality control measures under the National Environmental Policy Act of 1969 and Executive Order 11514;
    - xii. Notification of violating facilities pursuant to Executive Order 11738;
    - xiii. Protection of wetlands pursuant to Executive Order 11990;
    - xiv. Evaluation of flood hazards in floodplains in accordance with Executive Order 11988;
    - xv. Assurance of project consistency with the approved State management program developed under the Coastal Zone Management Act of 1972, 16 U.S.C. 1451 *et seq.*;
    - xvi. Conformity of federal Actions to State (Clean Air) Implementation Plans under Section 176(c) of the Clean Air Act of 1955, as amended, 42 U.S.C. 7401 *et seq.*;
    - xvii. Protection of underground sources of drinking water under the Safe Drinking Water Act of 1974, as amended;
    - xviii. Protection of endangered species under the Endangered Species Act of 1973, as amended;
    - xix. The Wild and Scenic Rivers Act of 1968, 16 U.S.C. 1271 *et seq.*, which relates to protecting components or potential components of the national wild scenic rivers system.
  7. Will comply with all other federal statutes applicable to the project, including but not limited to:
    - xx. Title II and III of the Uniform Relocation Assistance and Real Property Acquisition Policies Act of 1970, which provides for fair and equitable treatment of persons displaced whose property is acquired as a result of federal or federally-assisted programs;
    - xxi. The Hatch Act, 5 U.S.C. 1501-1508 and 7324-7328, which limits the political activities of employees whose principal employment activities are funded in whole or in part with federal funds;
    - xxii. The Flood Disaster Protection Act of 1973, which requires the purchase of flood insurance in certain instances;

- xxiii. Section 106 of the National Historic Preservation Act of 1966, as amended, 16 U.S.C. 470;
- xxiv. Executive Order 11593, which relates to identification and protection of historic properties;
- xxv. The Archaeological and Historic Preservation Act of 1974, 16 U.S.C. 469a-1 et seq.;
- xxvi. The Laboratory Animal Welfare Act of 1966, as amended, 7 U.S.C. 2131 et seq., which relates to the care, handling, and treatment of warm-blooded animals held for research, teaching, or other activities supported by a federal award of assistance;
- xxvii. The Lead-Based Paint Poisoning Prevention Act, 42 U.S.C. 4801 et seq., which relates to prohibiting the use of lead-based paint in construction or rehabilitation of residence structures;
- xxviii. The Single Audit Act Amendments of 1996 and OMB Circular No. A-133, "Audits of States, Local Governments, and Non-Profit Organizations."

- O. **Energy Conservation** To the extent applicable, the Contractor and its third party contractors at all tiers shall comply with mandatory standards and policies relating to energy efficiency that are contained in applicable state energy conservation plans issued in compliance with the Energy Policy and Conservation Act, 42 U.S.C. Section 6321 et seq.
- P. **Clean Water** For all contracts and subcontracts exceeding \$100,000, the Contractor agrees to comply with all applicable standards, orders, or regulations issued pursuant to the Water Pollution Control Act, 33 U.S.C. Section 1251 et seq.
- Q. **Clean Air** For all contracts and subcontracts exceeding \$100,000, the Contractor agrees to comply with all applicable standards, orders, or regulations issued pursuant to the Clean Air Act, 42 U.S.C. 7401 et seq.
- R. **Eligibility For Employment In The United States** The Contractor shall complete and keep on file, as appropriate, Immigration and Naturalization Service Employment Eligibility Forms (I-9). These forms shall be used by the Contractor to verify that persons employed by the Contractor are eligible to work in the United States.
- S. **Buy America** Only steel, iron and manufactured products produced in the United States may be purchased with Federal funds unless the Secretary of Transportation determines that such domestic purchases would be inconsistent with the public interest; that such materials are not reasonably available and of satisfactory quality; or that inclusion of domestic materials will increase the cost of overall project contract by more than 25 percent. Clear justification for the purchase of non-domestic items must be in the form of a waiver request submitted to and approved by the Secretary of Transportation.
- T. **False Or Fraudulent Statements Or Claims** The Contractor acknowledges that if it makes a false, fictitious, or fraudulent claim, statement, submission, or certification to CMAP in connection with this Agreement, CMAP reserves the right to impose on the Contractor the penalties of 18 U.S.C. Section 1001, 49 U.S.C. Section 5307, 31 U.S.C. Section 3801, and 49 CFR Part 31, as CMAP may deem appropriate. Contractor agrees to include this clause in all state and federal assisted contracts and subcontracts.
- U. **Changed Conditions Affecting Performance** The Contractor shall immediately notify CMAP of any change in conditions or local law, or of any other event which may significantly affect its ability to perform the Project in accordance with the provisions of this Agreement.
- V. **Third Party Disputes Or Breaches** The Contractor agrees to pursue all legal rights available to it in the enforcement or defense of any third party contract, and FTA or U.S. DOT and CMAP reserve the right to concur in any compromise or settlement of any third party contract claim involving the Contractor. The Contractor will notify FTA or U.S. DOT and CMAP of any current or prospective major dispute pertaining to a third party contract. If the Contractor seeks to name CMAP as a party to the litigation, the Contractor agrees to inform both FTA or U.S. DOT and CMAP before doing so. CMAP retains a right to a proportionate share of any proceeds derived from any third party recovery. Unless permitted otherwise by CMAP, the Contractor will credit the Project Account with any liquidated damages recovered. Nothing herein is intended to nor shall it waive U.S. DOT's, FTA's or CMAP's immunity to suit.

- W. **Fly America** Contractor will comply with 49 U.S.C. §40118, 4 CFR §52 and U.S. GAO Guidelines B- 138942, 1981 U.S. Comp. Gen. LEXIS 2166, March 31, 1981 regarding costs of international air transportation by U.S. Flag air carriers.
- X. **Non-Waiver** The Contractor agrees that in no event shall any action or inaction on behalf of or by CMAP, including the making by CMAP of any payment under this Agreement, constitute or be construed as a waiver by CMAP of any breach by the Contractor of any terms of this Agreement or any default on the part of the Contractor which may then exist; and any action, including the making of a payment by CMAP, while any such breach or default shall exist, shall in no way impair or prejudice any right or remedy available to CMAP in respect to such breach or default. The remedies available to CMAP under this Agreement are cumulative and not exclusive. The waiver or exercise of any remedy shall not be construed as a waiver of any other remedy available hereunder or under general principles of law or equity.
- Y. **Preference for Recycled Products** To the extent applicable, the Contractor agrees to give preference to the purchase of recycled products for use in this Agreement pursuant to the various U.S. Environmental Protection Agency (EPA) guidelines, "Comprehensive Procurement Guidelines for Products Containing Recovered Materials," 40 CFR Part 247, which implements section 6002 of the Resource Conservation and Recovery Act, as amended, 42 U.S.C. § 6962.
- Z. **Cargo Preference - Use of United States Flag Vessels.** The Contractor agrees to comply with 46 U.S.C. § 55305 and 46 CFR Part 381 and to insert the substance of those regulations in all applicable subcontracts issued pursuant to this Agreement, to the extent those regulations apply to this Agreement.
- AA. **Central Contractor Registration** - Contractor is required to register with the Central Contractor Registration (CCR), which is a web-enabled government-wide application that collects, validates, stores and disseminates business information about the federal government's trading partners in support of the contract award, grants and the electronic payment processes. If the Contractor does not have a CCR number, the Contractor must register at <https://www.bpn.gov/ccr>

As a sub-recipient of federal funds equal to or greater than \$25,000 (or which equals or exceeds that amount by addition of subsequent funds), this agreement is subject to the following award terms: <http://edocket.access.gpo.gov/2010/pdf/2010-22705.pdf> and <http://edocket.access.gpo.gov/2010/pdf/2010-22706.pdf>.

All of the requirements listed in **Federally Funded Agreements**, paragraphs A through AA apply to the federally funded project. The Contractor agrees to include these requirements in each contract and subcontract financed in whole or in part with federal assistance.

## SECTION 6: Special Provisions

1. Workers' Compensation. The State of Illinois Worker's Compensation Code requires the securing of workers' compensation by all non-state employers. The Submitter shall attest to understanding and complying with the State of Illinois Workers' Compensation Code requirement and submit a completed "Certificate Regarding Workers' Compensation Insurance," Attachment 2 to the RFP. In addition, the Submitter shall provide and maintain a waiver of subrogation endorsement.

### Attachment 1: Price Proposal Form

In response to Chicago Metropolitan Agency for Planning (CMAP) Request for Proposal (RFP) 097 to provide Agent-based Economic Extension to Mesoscale Freight Model dated November 26, 2012, the undersigned, as an individual(s) with the authority to bind the Proposer, understands and agrees to the specifications, terms, conditions and provisions of the RFP and prices proposed below unless otherwise modified by mutual agreement of the parties. It is also agreed that the proposal submitted in response to the RFP is valid for ninety (90) calendar days from the proposal due date.

Please enter pricing into the following matrix. If price structure is variable by which of the firm's employees are assigned, please specify the employee billing level, the cost per hour for this level, the number of hours expected for the project, and the total expenses to be billed for the project. Information for any subcontractors must be included as well. Please provide additional specifics where possible. Attach additional sheets if necessary. For ease of entry, feel free to copy and paste the table into an Excel spreadsheet; insert lines as necessary. For budgeting purposes, please itemize price according to the time periods indicated.

**Task 1: contract execution through 6/30/2013:**

Personnel	Role/Title	Rate	Hours	Rate*Hours
Person 1				
Person 2				
Person 3				
Person...				
<b>Personnel SubTotal</b>				

NonPersonnel	Cost
Travel	
Data Procurement	
Item...	
<b>NonPersonnel SubTotal</b>	

**Task 2: contract execution through 6/30/2014:**

Personnel	Role/Title	Rate	Hours	Rate*Hours
Person 1				
Person 2				
Person 3				
Person...				
<b>Personnel SubTotal</b>				

NonPersonnel	Cost
Travel	
Data Procurement	
Item...	
<b>NonPersonnel SubTotal</b>	

**Task 3: contract execution through 3/30/2015:**

Personnel	Role/Title	Rate	Hours	Rate*Hours
Person 1				
Person 2				
Person 3				
Person...				
<b>Personnel SubTotal</b>				

NonPersonnel	Cost
Travel	
Data Procurement	
Item...	
<b>NonPersonnel SubTotal</b>	

**Task 4: contract execution through 6/30/2015:**

Personnel	Role/Title	Rate	Hours	Rate*Hours
Person 1				
Person 2				

Person 3				
Person...				
<b>Personnel SubTotal</b>				

<b>NonPersonnel</b>	Cost
Travel	
Data Procurement	
Item...	
<b>NonPersonnel SubTotal</b>	

<b>Total Price</b>	
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Acknowledgement of Receipt of Addenda if any:  
(If none received, write "NONE.")

Addendum Number

Date Received

\_\_\_\_\_

\_\_\_\_\_

If awarded a contract, the undersigned hereby agrees to sign the contract and to furnish the necessary certificates if any.

Proposer's Authorized

Signatory (Print):

\_\_\_\_\_

Signature:

\_\_\_\_\_

Title:

\_\_\_\_\_

Company Name:

\_\_\_\_\_

Address:

\_\_\_\_\_

Telephone Number:

\_\_\_\_\_

Date:

\_\_\_\_\_

**Attachment 2: Certificate Regarding Workers' Compensation Insurance**

**Certificate Regarding Workers' Compensation Insurance**

In conformance with current statutory requirements of Section 820 ILCS 305/1 et. seq., of the Illinois Labor Code, the undersigned certifies as follows:

“I am aware of the provisions of Section 820 ILCS 305/1 of the Labor Code which require every employer to be insured against liability for Worker’s Compensation or to undertake self-insurance in accordance with such provisions before commencing the performance of the work of this contract.”

Bidder/Contactor \_\_\_\_\_

Signature \_\_\_\_\_

Name and Title \_\_\_\_\_

Date \_\_\_\_\_



**Attachment 3: Information to be provided by Bidder**

The Bidder is required to supply the following information (if necessary, attach additional sheets):

Firm Name: \_\_\_\_\_ Contact Person: \_\_\_\_\_

Business Address: \_\_\_\_\_

Telephone: (\_\_\_\_) \_\_\_\_\_ FAX: (\_\_\_\_) \_\_\_\_\_ E-mail: \_\_\_\_\_

Years of Experience: \_\_\_\_\_

Type of Firm – Sole Proprietor, Partnership, Corporation, Joint Venture, Etc.: \_\_\_\_\_

Organized under the laws of state of: \_\_\_\_\_

Business License No.: \_\_\_\_\_ Business License Expiration Date: \_\_\_\_\_

List names and addresses of owners of the firm or names and titles of officers of the corporation:

\_\_\_\_\_  
\_\_\_\_\_

Client list of services rendered currently and/or in the recent past:

<u>Type of Service/Product</u>	<u>Date Completed</u>	<u>Name and Address of Client</u>	<u>Contact Name and Phone Number</u>
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

Credit References (Include contact person's name, address, and telephone number for at least three references, one of which must be the Bidder's bank):

- a. \_\_\_\_\_  
\_\_\_\_\_
- b. \_\_\_\_\_  
\_\_\_\_\_
- c. \_\_\_\_\_  
\_\_\_\_\_

Bidder hereby certifies that it (check one): \_\_\_\_\_ IS \_\_\_\_\_ IS NOT an eligible Disadvantaged Business Enterprise (DBE) as defined in 49 CFR 23). If "IS" is checked, attach copy of document that certifies Bidder's status as a DBE.