September 12, 2005

Mr. Mohammed Alghurabi, Project Manager MDOT, Design Division 425 West Ottawa Lansing, MI 48933

RE: DRIC EPE/EIS Project; Job N. 802330

TCG Project No. 3600 - Invoice No. 8 Progress Report

Dear Mohammed:

Enclosed is the narrative progress report for the DRIC EPE/EIS Project. It supports Invoice No. 8 for August 2005. The invoice will be submitted under separate cover to Tonya Novach.

Please call if you have any questions or comments.

Sincerely yours,

oe C/Corradino, PE

Project Manager

YCC:gw

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Attachment

Regine Beauboeuf, PE Deputy Project Manager

PROGRESS REPORT THE CORRADINO GROUP DRIC EPE/EIS PHASE AUGUST 1 THROUGH AUGUST 31, 2005

The following details the work progress for the project by task (Sections A, B, & C). At the end of the task progress discussion are sections that address updates of the schedule, items needed from MDOT, and a listing of substantive verbal contacts with MDOT. Schedule adjustments and verbal contacts are listed on attachments G and H, respectively.

A, B, AND C - PROGRESS BY TASK

Task 1 (1220) - Verify Scope/Conduct Public Involvement Plan

A. Work Progress

- Compiled weightings of the evaluation factors of both the citizens and technical teams.
- Met with the MDOT Core Team on August 9th to review test evaluation approach.
- Met on August 9th with Don Flynn, proponent of the Hennepin Point river crossing.
- Toured the U.S. Steel plant on August 10th.
- Met with the Working Group on August 10th to prepare for Steering Committee meeting.
- Met with the Steering Committee on August 11th to review schedule of events, analysis work, and governance.
- Participated in a conference call on August 17th with MDOT, FHWA, DHS and CBT to define role of DHS in DRIC.
- Met with SEMCOG/MDOT to review the induced demand analysis approach on August 18th.
- Met with BASF to tour Fighting Island on August 23rd.
- Met with the CAPC group on August 24th.
- Met with the CAN-AM group on August 24th.
- Attended a Michigan Senate hearing on Grosse Ile on August 25th.
- Conducted a second Working Group meeting on August 31st to review progress on analysis.
- Conducted the U.S. scoping meeting on August 31st (it also served as U.S. LAC and LAG meeting).
- Secured the signatures of the Coast Guard, EPA and the Corps of Engineers on the Streamlining Agreement.
- Provided comments to a draft of QAs to the Canadians.

- Translated into Spanish a standard response to the letters of inquiry of the DRIC.
- Distributed a statement on governance.
- Assembled additional resolutions (Lincoln Park) against a Downriver crossing.
- Continued to respond to e-mails, comment forms and telephone hotline calls.
- Continued to respond to media inquiries.

B. Products

- Materials for the following meetings:
 - ✓ August 9th with Mr. Flynn, proponent of the Hennepin Point crossing.
 - ✓ August 9th with MDOT Core Team.
 - ✓ August 10th with Working Group.
 - ✓ August 11th with Steering Committee.
 - ✓ August 18th with SEMCOG on induced demand.
 - ✓ August 24th PowerPoint presentation to CAPC.
 - ✓ August 24th PowerPoint presentation to CAN-AM.
 - ✓ August 25th presentation materials including PowerPoint for the Senate Committee hearing.
 - ✓ August 30th with Working Group.
 - ✓ August 31st U.S. Scoping Meeting.
- Status reports on August 2nd and 19th.
- Monthly progress report.

C. Task Evaluation

- The participation in the scoping meeting was significant. A number of federal and local agencies were represented. Also, the LAC membership, particularly from Southwest Detroit, the Belle Isle and Downriver areas, participated.
- Since the beginning of August, the number of e-mails, telephone hotline calls and comment forms has been reduced to virtually none.

D. Upcoming Plans

- Prepare for the September 28th Working Group meeting at which preliminary proposals will be made for the best end-to-end crossings.
- Prepare for the combined LAC/CCG meeting on September 28th. It would be a boat tour of the plazas and river crossings.

- Prepare for the Steering Committee meeting of October 6th to review the preliminary proposals on end-to-end crossings.
- Prepare for an interagency Working Group meeting in mid-October. The purpose is to inform the agencies of the preliminary results in developing end-to-end crossing/system.
- Meet with Mr. Flynn, as appropriate, to discuss his concept for using NS/Conrail rail corridor for the route to a Hennepin Point crossing.
- Tour Grosse Ile on September 12th with the Grosse Ile Conservancy.
- Continue to respond to e-mails, comment forms and telephone hotline calls.
- Continue to respond to media inquiries.

Task 2 (2120) - Prepare Traffic Analysis Report

A. Work Progress

- Coded the Ambassador Bridge Gateway Project into the SEMCOG network. It did not exist earlier.
- Continue to test (105 model runs) various permutations/combinations of Illustrative Alternative routes
- Responded to a request made for additional documentation made at the August 3rd modeling group meeting.

B. Products

- Travel assignments on almost 100 alternative route alignments.
- Additional documentation to revise the travel demand modeling report.

C. Task Evaluation

- Continuing comments on the travel demand modeling approach will allow additional work to be undertaken between the model runs for the Illustrative Alternatives and the beginning of the modeling run for the Practical Alternatives.
- A subset of the modeling task force (MDOT, Corradino and SEMCOG) should be convened to determine the goal for an acceptable model validation.

- Completed the modeling runs for the first 100± Illustrative Alternative route combinations.
- Began to refine the model assignment process to be able to connect additional links of the best
 Illustrative Alternatives to help shape the final list of Practical Alternatives.
- Begin to make additional adjustments to the travel assignment model so that an updated version can be applied to the list of Practical Alternatives by the beginning of 2006.

Task 3 (2130) - Prepare Job Justification/Purpose and Need Statement

A. Work Progress

- Circulated the Streamlining Agreement for signature among the eight federal agencies cooperating with FHWA. Received signatures by the Corps of Engineers, the Coast Guard and the Environmental Protection Agency.
- Conducted the scoping meeting and prepared a transcript.

B. Products

- Meeting materials for the scoping meeting.
- Streamlining Agreement signed by the Corps of Engineers, the Coast Guard and EPA.

C. Task Evaluation

 The Department of Homeland Security has indicated officially that it will sign the Streamlining Agreement.

D. Upcoming Plans

• Review the input from the scoping meeting.

Task 4 (2140) – Develop/Review Illustrative Alternatives

A. Work Progress

- Completed refining plaza data.
- Conducted the plaza evaluation on August 25th. Prepared draft documentation and submitted it to the Working Group on August 31st.
- Completed the preliminary compilation of crossing data. Conducted a preliminary evaluation of crossings on August 30th. Summarized the results in a presentation to the Working Group on August 31st.

- Compiled the Illustrative Alternative route/alignment data.
- Developed tunnel layouts, profiles and cross-sections at Crossings X-14 and X-15.
- Prepared a technical memorandum to describe the constraints related to developing a bored tunnel crossing in the soft ground of the riverbed at Crossings X-14 and X-15.
- Refined the alignments of several crossings based upon collaboration with the Canadian team.
- Refined the span arrangements for long-span bridges that were developed in cooperation with the Canadians.
- Prepared preliminary profiles of "odd-numbered" crossings. (The Canadians are doing the evennumbered crossings.)
- Participated in a conference call on August 17th with MDOT, FHWA, DHS and CBT to discuss
 conditions affecting the development of alternatives including redundancy.
- Coordinated with the Canadians so that a common set of performance measures will be available to evaluate the crossings.
- Cooperated with NTH to determine the applicability of seismic tomographic imaging and developed an updated proposal for the geotechnical investigation related to salt mining/brine wells based on this technique.
- Examined the impact on I-75 as a result of a number of connections directly to the route.
- Prepared a cost estimate methodology and applied it to prepare construction cost estimates of the plaza.
- Prepared cost estimates to acquire land and remediate it for the plazas.
- Developed "video flyovers" of each of the Illustrative Alternative routes using Google Earth.

B. Products

- Final evaluation matrix for plazas.
- Preliminary evaluation matrix for crossings.
- Preliminary evaluation matrix of routes.
- Evaluation of the plazas on the U.S. side.
- Preliminary evaluations of the crossings.
- Video flyovers of Illustrative Alternative routes using Google Earth.

C. Task Evaluation

• The U.S. evaluation is proceeding according to schedule. However, conversations with the Canadians indicate that they lag behind the U.S. progress. This is of concern if the end-to-end

- solutions are to be identified on a preliminary basis in September and the results are to be sustainable.
- U.S. consultant has reviewed preliminary work produced by the Canadians on its reasoned
 argument and mathematical approaches. It has raised a number of questions. Likewise, these
 same questions have been posed in the Windsor Peer Review report of the Canadian approach.

- Revise the evaluation data as appropriate. Revise the draft documentation as appropriate.
- Compile the final data for the crossings and evaluate them from a U.S. perspective.
- Compile the final data for the route alignments and evaluate them on the U.S. side.
- Coordinate with the Canadians, beginning in mid-September to advance definition of the best "end-to-end" alternatives.
- Continue documentation on the U.S. side of the evaluation process.
- Cooperate with the Norfolk Southern railroad to be able to address the proposed use of their railroad corridor for a route to the international crossing at Hennepin Point.
- Prepare an updated right-of-entry form to be able to list projects following the Illustrative Alternatives analysis for which right-of-entry can be secured.
- Complete an analysis of a "diagonal" from 401 to the plaza that matches up with King Road on the Canadian side and test its potential.
- Continue to coordinate with the Coast Guard and the Corps of Engineers on pier locations in the river for proposed bridge crossings.

TASK 5 (2160) - DEVELOP SCOPING DOCUMENT

A. Work Progress

• Conducted the scoping meeting on August 31st.

B. Products

• Transcription of the scoping meeting comments.

C. Task Evaluation

 The scoping meeting was well attended by the local, state and federal agencies as well as Local Advisory Council members.

• This task has been completed once the transcript has been delivered.

Task 6 (2310) - Conduct SEE Technical Studies

A. Work Progress

- ✓ Threatened and Endangered Species
 - Define the habitats of endangered species and the specific species.
 - Define wetlands by number, size and type.
 - Participated in the August 24th scoring of plazas.
 - Participated in the August 30th preliminary scoring of crossings.
 - Participated in the August 31st Working Group meeting.
 - Continued to refine the database in anticipation of establishing the Practical Alternatives.
 - Developed locations on a preliminary basis that will require right-of-entry for wetlands analysis.

✓ Coastal Zone Management

- Listed the Coastal Zone Management Projects potentially affected by the Illustrative Alternatives.
- Participated in the August 24th scoring of plazas.
- Participated in the August 30th preliminary scoring of crossings.
- Participated in the August 31st Working Group meeting.
- Continued to refine the database in anticipation of establishing the Practical Alternatives.
- Developed locations on a preliminary basis that will require right-of-entry for wetlands analysis.

✓ Cultural Resources

- Define the aboveground and belowground cultural resources potentially affected by the Illustrative Alternatives.
- Participated in the August 24th scoring of plazas.
- Participated in the August 30th preliminary scoring of crossings.
- Participated in the August 31st Working Group meeting.

- Continued to refine the database in anticipation of establishing the Practical Alternatives.
- Developed locations on a preliminary basis that will require right-of-entry for wetlands analysis.

✓ Agriculture

- Defined the impact of agricultural land for those routes that extend beyond I-75 to I-275.
- Participated in the August 24th scoring of plazas.
- Participated in the August 30th preliminary scoring of crossings.
- Participated in the August 31st Working Group meeting.
- Continued to refine the database in anticipation of establishing the Practical Alternatives.
- Developed locations on a preliminary basis that will require right-of-entry for wetlands analysis.

✓ Air Quality

- Calculated regional changes in air quality as a result of the different Practical Alternatives.
- Conducted CO concentration analyses for the plaza areas for the evaluation process.
- Participated in the August 24th scoring of plazas.
- Participated in the August 30th preliminary scoring of crossings.
- Participated in the August 31st Working Group meeting.
- Continued to refine the database in anticipation of establishing the Practical Alternatives.
- Developed locations on a preliminary basis that will require right-of-entry for wetlands analysis.

✓ Flooding/Water Quality

- Defined for the Illustrative Alternatives the number of floodways impacted and the number of acres of each.
- Participated in the August 24th scoring of plazas.
- Participated in the August 30th preliminary scoring of crossings.
- Participated in the August 31st Working Group meeting.
- Continued to refine the database in anticipation of establishing the Practical Alternatives.

 Developed locations on a preliminary basis that will require right-of-entry for wetlands analysis.

✓ Recreational Uses

- Prepared a list of public parks for the evaluation of alternatives.
- Define if public park is either 4(f) or 6(f).
- Participated in the August 24th scoring of plazas.
- Participated in the August 30th preliminary scoring of crossings.
- Participated in the August 31st Working Group meeting.
- Continued to refine the database in anticipation of establishing the Practical Alternatives.
- Developed locations on a preliminary basis that will require right-of-entry for wetlands analysis.

✓ Community Impact Assessment

- Defined the potential impact of the Illustrative Alternatives on the minority populations and low-income populations.
- Defined the Illustrative Alternatives potential impacts on key cultural groups covered by Title VI.
- Participated in the August 24th scoring of plazas.
- Participated in the August 30th preliminary scoring of crossings.
- Participated in the August 31st Working Group meeting.
- Continued to refine the database in anticipation of establishing the Practical Alternatives.

✓ Wetland Delineation/Assessment

- Define wetlands by number, size and type.
- Participated in the August 24th scoring of plazas.
- Participated in the August 30th preliminary scoring of crossings.
- Participated in the August 31st Working Group meeting.
- Continued to refine the database in anticipation of establishing the Practical Alternatives.
- Developed locations on a preliminary basis that will require right-of-entry for wetlands analysis.

B. Products

- Additional field work to prepare for the evaluation of plazas and the preliminary evaluation of
 crossings in the above-listed areas.
- Additional field work to prepare for the evaluation of routes.
- Supporting documentation in GIS files to identify the potential areas that would be impacted by an element of the crossing system (route, plaza or crossing).
- Additional field work to update GIS and prepare spreadsheets.
- Data for evaluation of Illustrative Alternatives.
- Shape files for various SEE categories.

C. Task Evaluation

Some SEE team members developed budgets with fewer than 15 Illustrative Alternatives. A
change order will be prepared to deal with these budget issues.

D. Upcoming Plans

- Conduct the analysis of the crossings.
- Conduct the analysis of the route alignments.
- Define the rate of entry needs for the preliminary Practical Alternatives, first plazas, then crossings, then routes.
- Begin to align the field work for the Practical Alternatives.

TASK 7 (2320) - AERIAL PHOTOGRAPHY

A. Work Progress

• Completed only 5 percent of the additional DTM compilation.

B. Products

• Additional DTM compilation.

C. Task Evaluation

- DTM compilation on hold until MDOT approves the proposed contract amendment.
- Additional data from Wayne County has been suspended until the Practical Alternatives have been established.

• Suspend work until the additional work authorization is approved.

TASK 8 (2330) - GEOTECHNICAL DATA

A. Work Progress

• Finalized the Preliminary Evaluation report.

B. Products

• Final Preliminary Evaluation report.

C. Task Evaluation

 The need to direct additional geotechnical work is a function of review by MDOT of an updated change order which will be significant in September.

D. Upcoming Plans

• Submitted to MDOT revised request for additional work.

TASK 9 (2340) - PRACTICAL ALTERNATIVES

A. Work Progress

• Work in this task has not been initiated.

TASK 10 (2360) - PREPARE DEIS

A. Work Progress

• Work in this task has not been initiated.

TASK 11 (2380) - DEIS AVAILABILITY/PUBLIC HEARING

A. Work Progress

• Work in this task has not been initiated.

Task 12 (2510) - Recommended Alternative

A. Work Progress

• Work in this task has not been initiated.

TASK 13 (2525) – ENGINEERING REPORT

A. Work Progress

• Work in this task has not been initiated.

TASK 14 (2530) – PREPARE FEIS

A. Work Progress

• Work in this task has not been initiated.

Task 15 (2550) - Obtain Record of Decision

A. Work Progress

• Work in this task has not been initiated.

TASK 16 (2810) - CONDUCT INITIAL SITE ASSESSMENT

A. Work Progress

• Work in this task has not been initiated.

Task 17 (2820) – Conduct Preliminary Site Investigation

A. Work Progress

• Work has not been initiated in this task.

TASK 18 (3310) – AERIAL TOPOGRAPHIC MAPPING

A. Work Progress

• Completed only 5 percent of the additional DTM compilation.

B. Products

• Additional DTM compilation.

C. Task Evaluation

- DTM compilation on hold until MDOT approves the proposed contract amendment.
- Additional data from Wayne County has been suspended until the Practical Alternatives have been established.

D. <u>Upcoming Plans</u>

• Hold up on work until the additional work is approved.

TASK 19 (3320) - CONTROL SURVEY FOR AERIALS

A. Work Progress

• Continue QA/QC on 50 check points.

B. Products

• None as none required.

C. Task Evaluation

• QA/QC is proceeding appropriately.

D. Plans for Next Reporting Period

• Provided test results of 50 check points.

TASK 20 (3330) - DESIGN SURVEY

A. Work Progress

• Work has not been initiated on this task.

TASK 21 (3350) - HYDRAULICS SURVEY

A. Work Progress

• Work has not been initiated on this task.

TASK 22 (4510) - RIGHT-OF-WAY SURVEY

A. Work Progress

• Work has not been initiated on this task.

TASK 23 (3370) - STRUCTURE SURVEY

A. Work Progress

• Work has not been initiated on this task.

TASK 24 (3520) - SCOUR ANALYSIS

A. Work Progress

• Work in this task has not been initiated.

Task 25 (3530) - Foundation Investigation

A. Work Progress

- Completed the evaluation of Illustrative Alternatives for foundation conditions.
- Attended the August 31st scoping meeting.
- Prepared a memorandum to deal with additional geotechnical investigation.
- Revised the derivation of cost information for the additional geotechnical investigation.

B. Products

Updated approach on the additional geotechnical investigation including cost derivation.

C. Task Evaluation

• Additional work in this area depends on MDOT's review of proposed scope.

D. Plans for Next Reporting Period

- Cooperate with MDOT to advance the brine well risk assessment.
- Support evaluation of Illustrative Alternatives.

TASK 26 (3710) - REQUIRED MITIGATION

A. Work Progress

• Work in this task has not been initiated.

D. UPDATE OF PREVIOUSLY APPROVED SCHEDULE (ATTACHED)

While a schedule adjustment is not necessary, a change order has been offered to provide additional aerial photography to enhance the analysis west of I-75 in the Downriver corridor. MDOT action on this proposal is important to maintaining the project schedule.

MDOT has also been notified that a significant change order needs to be considered to conduct a detailed risk analysis of the location of brine wells and their effects on the placement of piers for a final Practical Alternative bridge. Additionally, that change order will include adjustments dealing with the communications logistics that are now significantly different than anticipated at the outset of the study because of the very large attendance at one set of public meetings in the Downriver area. The review by MDOT to formally submit such a change order is still ongoing and is needed as soon as possible. It is anticipated that the work included in the proposed change order will be initiated in the fall and concluded in the winter allowing the Practical Alternative to have considerable definition of the potential engineering/geotechnical risks as well as to continue to the public meetings with a full complement of advertising and logistics as in the past.

E. ITEMS NEEDED FROM MDOT

- A review of the division of engineering work on the border crossing facilities.
- As-built plans for:
 - ✓ M-39 from M-85 to US 12 in Wayne County.
 - ✓ I-75 from Gibraltar Road to Clay Street in Wayne County.
 - ✓ I-375 in Downtown Detroit.
 - ✓ US 12 from Van Horn to US 12.

- ✓ US 24 from Van Horn to US 12.
- ✓ US 24 connector from US 24 to I-75.
- ✓ I-275 from Willow Road to US 12.
- ✓ M-85 from King Road to Oakland Boulevard.
- Review of a proposed change order dealing with additional aerial photography and geotechnical tasks.

F. Substantive Verbal Contacts with MDOT (Attached)

- Attended the following meetings on:
 - ✓ August 9th with MDOT Core Team.
 - ✓ August 9th with Mr. Flynn, proponent of Hennepin Point crossing.
 - ✓ August 10th with DRIC Working Group.
 - ✓ August 11th with DRIC Steering Committee.
 - ✓ August 18th with SEMCOG/MDOT on induced demand.
 - ✓ August 23rd with BASF to tour Fighting Island.
 - ✓ August 24th with CAPC for presentation.
 - ✓ August 24th with CAN-AM for presentation.
 - ✓ August 25th with Senate Committee hearing.
 - ✓ August 31st with DRIC Working Group.
 - ✓ August 31st U.S. Scoping Meeting.
- Upcoming meetings:
 - ✓ September 13th and 14th with MDOT/U.S. Consultant on evaluation of Illustrative Alternatives.
 - ✓ September 15th meeting with Canadians to begin establishing end-to-end alternatives.
 - ✓ September 20th, 21st meetings with Canadians to continue effort to establish end-to-end alternatives.
 - ✓ September 28th meeting with DRIC Working Group to present preliminary end-to-end alternatives.

ATTACHMENT

G. Schedule Detail

Original Date	Anticipated Date	Explanation
Fourth week of February 2005	Fourth week of February 2005	1 Preliminary Evaluation Criteria
Last week of March 2005	Mid-April 2005 ¹	2 Study Kickoff
Third week of June 2005	Third week of June 2005	3 Illustrative Alternatives Definition
Fourth week of June 2005	Fourth week of June 2005	4 Scoping Document
Fourth week of August 2005	Fourth week of August 2005	5 Scoping
Third week of November 2005	Third week of November 2005	6 Preliminary Evaluation of Illustrative Alternatives
Second week of December 2005	Second week of December 2005	7 Preliminary Illustrative Alternatives Evaluation
Fourth week of February 2006	Fourth week of February 2006	8 Evaluation of Illustrative Alternatives/Select Practical Alternatives
Third week of March 2006	Third week of March 2006	9 Practical Alternatives Selection
First week of April 2006	First week of April 2006	10 Context Sensitive Design 1
First week of May 2006	First week of May 2006	11 Community Impact Assessment 1
First week of June 2006	First week of June 2006	12 Context Sensitive Design 2
First week of July 2006	First week of July 2006	13 Community Impact Assessment 2
Fourth week of July 2006	Fourth week of July 2006	14 Engineering Concepts Report
First week of August 2006	First week of August 2006	15 Context Sensitive Design 3
Second week of August 2006	Second week of August 2006	16 Preliminary DEIS
Second week of October 2006	Second week of October 2006	17 Draft DEIS
Fourth week of November 2006	Fourth week of November 2006	18 Public Hearing Script/Video
Second week of December 2006	Second week of December 2006	19 FHWA Approved DEIS
Second week of January 2007	Second week of January 2007	20 DEIS Public Hearing
Second week of April 2007	Second week of April 2007	21 Public Hearing Comment Summary
Fourth week of July 2007	Fourth week of July 2007	22 Recommended Alternative
Fourth week of August 2007	Fourth week of August 2007	23 Final EIS
Fourth week of September 2007	Fourth week of September 2007	24 Final Engineering Report
Fourth week of November 2007	Fourth week of November 2007	25 MOU
Second week of December 2007	Second week of December 2007	26 Recommended Alternative Presentation
Fourth week of December 2007	Fourth week of December 2007	27 Access Justification Report
Fourth week of December 2007	Fourth week of December 2007	28 ROD

 $^{^{\}rm 1}$ Revised based upon the occurrence of various overlapping spring breaks.

ATTACHMENT

H. CONTACT RECORDS

- Daily e-mail and conversations by phone with MDOT.
- Monthly progress report.
- Two bi-weekly status reports.
- Meetings of:
 - ✓ August 9th with MDOT Core Team.
 - ✓ August 9th with Mr. Flynn, proponent of Hennepin Point crossing.
 - ✓ August 10th with DRIC Working Group.
 - ✓ August 11th with SEMCOG/MDOT on induced demand.
 - ✓ August 23rd with BASF to tour Fighting Island.
 - ✓ August 24th with CAPC for presentation.
 - ✓ August 24th with CAN-AM for presentation.
 - ✓ August 25th with Senate Committee hearing.
 - ✓ August 31st with DRIC Working Group.
 - ✓ August 31st U.S. Scoping Meeting.