

April 3, 2008

TranSystems

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www.transystems.com

Re: Contract Modification: FRA-Tech Center Drive Extension Project

Dear Mr. Whetherholt:

Mr. Karl Whetherholt

City of Gahanna City Engineer 200 South Hamilton Road Gahanna, OH 43230

Enclosed are two copies of proposed contract modification between the City of Gahanna (City) and TranSystems Corporation of Ohio for the FRA-Tech Center Drive Extension project. As specified below, this modification is for out of scope work requested by ODOT and the City of Gahanna, or is otherwise a result of a change in project conditions.

TranSystems is currently authorized for \$498,407. The current contract modification is for an additional \$27,030, bringing the total authorized amount to \$525,437.

The out of scope work includes noise analysis and Mobile Source Air Toxics report for both the FRA-Tech Center Drive and the associated I-270/Hamilton Road interchange projects, as requested by ODOT. The work also includes coordination of roadway design issues and details with the developer of the Buckles Tract, as well as re-survey of a portion of the Tech Center alignment following the addition of uncontrolled filling by the land owner.

Therefore, we respectfully request the additional \$27,030 for this out of scope work. The attached scope (Attachment A) and fee details this work. Please have both copies signed and returned them to our office. We will provide you with a fully executed agreement.

Please call me at 336-8480 if you have any questions or need additional information.

Sincerely,

TranSystems Corporation

Andrew M. Schneider, AICP

Project Manager



EXHIBIT A

FRA-Tech Center Drive Extension Modification to Scope of Services (April 3, 2008)

TranSystems will perform the work outlined below in Tasks 1-2 in response to requests from ODOT. TranSystems will complete the noise analysis and Mobile Source Air Toxics (MSAT) report for the FRA-Tech Center Drive and the I-270/Hamilton Road interchange projects located in Gahanna, Ohio. TranSystems will utilize and follow ODOT's current standard documents, procedures and computer modeling in the performance of this scope of services. The following standard documents shall be incorporated by reference into the scope of services for the Project:

- CFR 772, Procedures for Abatement of Highway Traffic and Construction Noise
- Highway Traffic Noise Analysis and Abatement, Policy and Guidance (FHWA)
- Standard Procedure for Analysis and Abatement of Highway Traffic Noise (ODOT, August 1, 2006)
- Aesthetic Design Guidelines (ODOT)
- Transportation Noise Model Version 2.5 (FHWA)
- All pertinent sections of the Ohio Revised Code
- FHWA Interim Guidance on Air Toxic Analysis in NEPA Documents
- ODOT Technical Guidance for Analysis of Mobile Source Air Toxics

Tasks 3-4 represent out of scope work requested by the City or required for the project. The scope of work includes coordinating design details for the subject project with the developer of the parcel and re-surveying a segment of the alignment following the addition of uncontrolled fill material by the land owner. This work will be conducted in addition to the work for which TranSystems is already under contract.

Task 1 Traffic Noise Analysis

Noise Monitoring/Field Studies

TranSystems will perform field noise measurements to determine the existing noise environment at representative locations within the study area. Noise measurements will be performed in accordance with ODOT's *Standard Procedure for Analysis and Abatement of Highway Traffic Noise Section I.C. Determination of Existing Noise Levels.* Noise measurements will be taken for duration of 20 minutes during the peak noise hour to evaluate the worst case traffic noise condition. During the noise monitoring period at each location, simultaneous vehicle counts will be completed. The field measurements and data collection will be utilized in the noise model runs to calibrate the traffic noise model to site-specific conditions. The existing noise levels measured in the field will be compared against the traffic noise model predictions of existing conditions to verify the accuracy of the computer model. Noise model verification procedures are initiated to assure that reported changes in noise levels between existing and design conditions are due solely to changes in acoustical conditions and do not erroneously reflect discrepancies due to modeling and monitoring techniques. Noise levels will be measured at up to five (5) locations within the study area.



Traffic Noise Modeling

TranSystems will perform a noise analysis in accordance with all the requirements based on the FHWA's Title 23 Code of Federal Regulations Part 772, the FHWA guidance document Highway Traffic Noise Guidance and Policies and Written Noise Policies, and the ODOT Standard Procedure for Analysis and Abatement of Highway Traffic Noise. The noise analysis will be prepared using the FHWA's Traffic Noise Model (TNM) Version 2.5 and will identify potential traffic noise impact on sensitive noise receptor sites located within 600 feet of the proposed improvement. The noise analysis will evaluate the existing condition based on existing year traffic volume, the design year no build condition and the design year condition. Noise impacts will be identified based on the predicted design year noise level approaching (within 1 dB) or exceeding the applicable Noise Abatement Criteria (NAC) Activity Category (likely Category B) or the predicted noise level substantially (10 dB or more) exceeding the existing year noise level. A substantial increase in noise level is guite common with projects on new alignment. If warranted, a preliminary noise abatement design for impacted receptor sites will be prepared using TNM. Noise abatement will be recommended for receptor sites where abatement is found to be both a feasible (able to achieve a substantial noise reduction) and a reasonable (cost of less than \$35,000 per benefited receptor) noise abatement measure.

Noise Analysis Report

TranSystems will submit a draft copy of the noise analysis report with all with all requirements specified in ODOT's Standard Procedures No. 417-001(SP) to ODOT District 6 and OES. The report will include the collected noise monitoring data and modeling results for the existing a future conditions. The report will also discuss the potential design, construction, and potential community issues associated with the construction of the warranted noise barrier walls. TranSystems will address any comments and submit a Final Noise Analysis Report. TranSystems will also include all TNM files and base reference files in dxf format on a CD.

Deliverables

Noise Analysis Report (4 copies and electronic)

Task 2 Air Quality Analysis - Mobile Source Air Toxics

FHWA has developed a tiered approach for analyzing MSATs in NEPA documents. This project will likely fall under the "projects with low potential MSAT effects" which require a qualitative analysis. TranSystems will prepare a qualitative MSAT analysis based on traffic volumes at the I-270 and Hamilton Road interchange. The MSAT analyses will be based on national trend data as well as project specific VMT, vehicle mix and vehicle speed. TranSystems will prepare the required documentation for MSAT analysis of the preferred alternative using the essential language as provided in Appendix B of the FHWA Interim Guidance on Air Toxic Analysis in NEPA Documents. The documentation will be prepared for inclusion as an appendix in the NEPA environmental document prepared for the project.

Deliverables

Qualitative MSAT Analysis (4 copies and electronic)

Task 3 Coordination with Developers

TranSystems has received requests for information and design details from the developer of the Buckles Tract. TranSystems will work with the developer on various design details of the Tech

FRA-Tech Center Drive Extension – Exhibit A (April 3, 2008)



Center roadway as it relates to temporary and future permanent access to commercial development, utilities as well the Tech Center Drive intersection with Hamilton Road.

Task 4 Survey to Define Areas of Fill on the Alignment

Following the geotechnical investigations of the preferred alignment by BBC&M, the land owner placed uncontrolled fill material along the preferred alignment in an effort to raise the profile. Subsequently, the City of Gahanna hired H.C. Nutting & Co. to conduct a geotechnical study to determine the suitability of the material for roadway embankment construction. H.C. Nutting recommended complete removal and replacement in areas that will support the roadway. At present, TranSystems team has no clear geospatial data on the extent of the fill material and will conduct a survey in this section of the alignment to determine the geographic extent in order to compare with the original topographic survey. This will allow the TranSystems team to accurately determine the limits of removal and replacement of the uncontrolled fill as indicated in the H.C. Nutting report.

IN WITNESS	WHEREOF,	the	parties	hereto	have	made	and	executed	this	
Agreement as of the	day of	20	200							
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City of Gahanna, Ohio		TranSystems Corporation of Ohio								
By:				By:						
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Printed Name:					ted Na	me:				
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