The CAPITAL AREA METROPOLITAN PLANNING ORGANIZATION
2010 Travel Demand Model
License Agreement
Revised April 8, 2015

Introduction

This License Agreement is entered into this _____ day of _____ , _____ by and between the Capital Area Metropolitan Planning Organization (hereinafter referred to as "CAMPO"), a Texas government entity located at 3300 North I-35, Suite 630, Austin, TX, 78705 and

_____, (hereinafter referred to as the "LICENSEE"),

located at _____,

and _____, (hereinafter referred to as the "CONSULTANT"),

located at _____.

This License Agreement is intended to cover the LICENSEE and the CONSULTANT's use of the CAMPO 2010 Travel Demand Model (TDM) as specified below under the General and User-Specific Conditions.

General Terms and Definitions

CAMPO is the agency responsible for the development of the CAMPO 2010 TDM and as such is the owner of the model and has the authority regarding model application. CAMPO is the only entity that has the authority to distribute copies of the CAMPO 2010 TDM. MODEL PLATFORM is the proprietary software used to develop and apply the CAMPO TDM; this includes **TransCAD 6.0**. CAMPO 2010 TDM refers generally to either the CAMPO ADOPTED/AMENDED 2040 PLAN TDM or a CAMPO DERIVATIVE TDM, as defined below.

The CAMPO ADOPTED/AMENDED 2040 PLAN TDM is the latest version of the CAMPO travel demand model developed for the purpose of supporting the current CAMPO long-range transportation plan. The CAMPO ADOPTED/AMENDED 2040 PLAN TDM was developed to analyze transportation system improvement strategies and system deficiencies in the regional six-county area (Bastrop, Burnet, Caldwell, Hays, Travis, and Williamson Counties) and was validated to 2010 conditions. The CAMPO 2010 TDM is applied using **TransCAD version 6.0 r2 build 9035 64-bit** modeling software. The CAMPO ADOPTED/ AMENDED 2040 PLAN TDM includes the model structure, supporting compiled interface and programs in TransCAD, supporting input files, and all socio-economic data and network data necessary to replicate the Adopted Plan model runs for the years 2010, 2020, and 2040.

A summary of applicable scenarios for use of the CAMPO ADOPTED/AMENDED 2040 PLAN TDM is shown in Exhibit 1; a detailed checklist of required components is shown in Exhibit 2.

CAMPO DERIVATIVE TDM is a model based upon the CAMPO ADOPTED/AMENDED 2040 PLAN TDM, and modified under constraints appropriate to maintain the integrity of the CAMPO ADOPTED/AMENDED 2040 PLAN TDM. A summary of applicable scenarios for use of a CAMPO DERIVATIVE TDM is shown in Exhibit 1; a detailed checklist of required components for Derivative TDM Type A and Derivative TDM Type B is shown in Exhibit

2. Derivative Model Type C is provided to maintain flexibility for CAMPO staff to provide advance

approval for other variations of derivative type models outside the constraints of Type A and B, but which in CAMPO staff estimation could still be considered a derivative type model.

NON-CONFORMING MODEL is a term used by CAMPO to refer to all other cases where the CAMPO ADOPTED/AMENDED 2040 PLAN TDM has been modified outside the constraints appropriate to maintain the integrity of the CAMPO ADOPTED/AMENDED 2040 PLAN TDM or the structure outlined below defining acceptable modifications to serve as a CAMPO DERIVATIVE TDM.

The LICENSEE/CONSULTANT intentionally claiming a Non-Conforming Use of CAMPO 2040 TDM as an ADOPTED PLAN TDM or DERIVATIVE TDM or using a CAMPO 2040 TDM for other than the authorized project may have their license immediately terminated and may be denied a new CAMPO 2040 TDM license agreement for up to three years.

CAMPO will maintain a current list of LICENSEE/CONSULTANTs denied a CAMPO 2040 TDM license and will make such list available to the public upon request.

General Conditions for Model Release and Use

The LICENSEE/CONSULTANT agrees to the following conditions:

- The LICENSEE/CONSULTANT is responsible for the purchase and maintenance of TransCAD from the Caliper Corporation.
- The LICENSEE/CONSULTANT agrees to use the latest version of the CAMPO ADOPTED/AMENDED 2040 PLAN TDM provided by CAMPO as a basis for any work.
- The LICENSEE/CONSULTANT agrees to acquire and reference the CAMPO 2040 TDM Documentation, as well as seek out training on the CAMPO 2040 TDM as appropriate.
- The LICENSEE/CONSULTANT will not share or distribute the CAMPO 2040 TDM with or to any other entity without written permission from CAMPO. Other interested parties should be referred directly to CAMPO. The LICENSEE/CONSULTANT that shares or distributes the CAMPO 2040 TDM to any other entity without written permission from CAMPO may have their license immediately terminated and may be denied a new CAMPO 2040 TDM license agreement for up to three years. CAMPO will maintain a current list of LICENSEE/CONSULTANTs denied a CAMPO 2040 TDM and will make such list available to the public upon request.
- Unless expressly specified as being acceptable under the structure summarized in Exhibit 1and conforming to required components in Exhibit 2, any modifications to the CAMPO ADOPTED/AMENDED 2040 PLAN TDM are deemed to revise the model and results such that CAMPO denies the LICENSEE/CONSULTANT the right to refer to, characterize, or label their model application as a CAMPO ADOPTED/AMENDED 2040 PLAN TDM, CAMPO DERIVATIVE TDM, CAMPO ALTERNATIVES ANALYSIS MODEL, or any other reference using the CAMPO name. CAMPO considers any other type of model and results to be a NON-CONFORMING MODEL. The LICENSEE/CONSULTANT intentionally claiming a Non-Conforming Use of CAMPO 2040 TDM as an ADOPTED PLAN TDM or DERIVATIVE TDM or using a CAMPO 2040 TDM for other than the authorized project may have their license immediately terminated and may be denied a new CAMPO TDM license agreement for up to three years. CAMPO will maintain a current list of LICENSEE/CONSULTANTs denied the CAMPO 2040 TDM and will make such list available to the public upon request.
- The LICENSEE/CONSULTANT agrees to notify CAMPO modeling staff BEFORE using or applying the CAMPO 2040 TDM on any new project, study, or effort and to state clearly what type of model will be used, according to the structure below: CAMPO ADOPTED/AMENDED 2040 PLAN TDM, CAMPO DERIVATIVE TDM, or NON-CONFORMING MODEL WITH PERMISSION. If a derivative model, LICENSEE/CONSULTANT agrees to include a description of the type of derivative model approach being used (A, B, or C), as well as a rationale for this choice, describing the modifications to be made to the CAMPO 2040 TDM and why these changes maintain the integrity of the CAMPO 2040 TDM. CAMPO reserves the right to challenge the extent of modifications within each category at any time and to require LICENSEE/CONSULTANT to execute a new license agreement for any project authorized by CAMPO for evaluation. If the LICENSEE/CONSULTANT makes modifications without

express written concurrence from CAMPO that such changes conform to the model structure outlined in Exhibit 1 and Exhibit 2, then the LICENSEE/CONSULTANT bears the responsibility if their model application is later determined to be a NON-CONFORMING MODEL.

- The LICENSEE/CONSULTANT agrees, at the CONCLUSION of using or applying the CAMPO 2040 TDM on any project, study, or effort, to provide CAMPO staff documentation regarding any revisions, assumptions or alternative analyses that were implemented during model application, and, upon CAMPO request, to provide CAMPO all model files necessary to replicate the LICENSEE/CONSULTANT results.
- The LICENSEE/CONSULTANT agrees, if requested, to submit to CAMPO all results of the model application for review and concurrence before releasing the results to any other parties. CAMPO at its discretion may choose to re-run the LICENSEE/CONSULTANT's model application to verify the proper use of the CAMPO 2040 TDM as part of its review and concurrence process.
- The LICENSEE/CONSULTANT agrees that the CAMPO 2040 TDM is being accepted as is and understands that CAMPO makes no guarantees as to the accuracy of the results obtained through use of the CAMPO 2040 TDM.
- The LICENSEE/CONSULTANT to the extent permitted by law shall indemnify and hold harmless CAMPO, its officers, employees, and agents against any and all claims, damages, liability, and court awards, including all costs, expenses, and attorney's fees, incurred as a result of the LICENSEE/CONSULTANT's use of the CAMPO 2040 TDM.

Intent of the Parties

The LICENSEE/CONSULTANT and CAMPO agree that the intent of each party is to refine and improve the accuracy of the CAMPO 2040 TDM and its variations. The LICENSEE/CONSULTANT has the duty to directly notify CAMPO, and only CAMPO, of any discovered anomalies, discrepancies, or bugs in the application of the CAMPO 2040 TDM so that CAMPO might refine and improve the accuracy of the CAMPO 2040 TDM as mutually intended.

CAMPO 2040 TDM Model Sharing Framework

The LICENSEE/CONSULTANT agrees to abide by the CAMPO 2040 TDM Model Sharing Framework as summarized in Exhibit 1 and detailed in Exhibit 2, which are included here and referenced in the General Conditions above.

CAMPO 2040 TDM Model Sharing Support Services

The LICENSEE/CONSULTANT acknowledges the availability of additional CAMPO 2040 TDM Model Sharing Services and Tools related to this Framework, including (some with associated costs):

- CAMPO ADOPTED/AMENDED 2040 PLAN TDM availability through password-protected Web download
- CAMPO 2040 TDM Documentation through password-protected Web download
- CAMPO 2040 TDM User Group Update Notifications for users with current License Agreements
- Training on CAMPO 2040 TDM application
- Technical support and assistance
- Opportunity to discuss proposed model use prior to application
- Model review and approval of results

User-Specific/Project-Specific Conditions for Model Use

Because of the varied needs of LICENSEE/CONSULTANT's for the CAMPO 2040 TDM, the following conditions have been specified to best fit the needs of the LICENSEE/CONSULTANT.

CONDITION 1 OR CONDITION 2 MUST BE SPECIFIED

<u>Check:</u> Adopted Plan TDM ☐ Condition 1 Applies: ☐ **OR** Derivative TDM Type A ☐ B ☐ C ☐	**Condition 1 – Project-Specific TDM Application Agreement** Name of Authorized Project: _____ The License Agreement period for this project shall be no greater than one (1) year from the date in which it was entered into. To run or review only the **Adopted/Amended CAMPO 2040 Plan TDM,** LICENSEE/CONSULTANT agrees to replicate the adopted plan model run, making no changes to any model inputs, parameters, or process. To use and present a model as a **CAMPO Derivative TDM Type A or B,** LICENSEE/CONSULTANT agrees to ensure that TDM modifications satisfy the CAMPO 2040 TDM sharing structure as detailed in Exhibit 2 for Derivative TDM Types A and B. Derivative TDM Types A and B are anticipated to be the most common type of CAMPO model application. CAMPO staff is available to review and discuss proposed (or completed) changes to the TDM to ensure conformity as a Derivative TDM Type A or B. To use and present a model as a **Derivative TDM Type C,** LICENSEE/CONSULTANT agrees to (either or both are acceptable options): ☐ Advance Review of Approach – request a review of their proposed TDM approach by CAMPO staff to ensure conformity as a Derivative TDM. CAMPO will provide review support services at an hourly rate. ☐ Post-Completion Review of Approach and Results – request a review of their proposed TDM approach by CAMPO staff to ensure conformity as a Derivative TDM. CAMPO will provide review support services at an hourly rate. LICENSEE/CONSULTANT assumes risk associated with any necessary changes to bring their TDM into conformity as a Derivative TDM Type C. **All General Conditions still apply.**

Check if:	**Condition 2 – Open-Ended TDM Application Agreement**
Condition 2 Applies:	Name of Authorized Project: _____
☐	The License Agreement period for this project shall be no greater than one (1) year from the date in which it was entered into.
Non-Conforming Use of Model Components	LICENSEE/CONSULTANT is authorized under this License Agreement to apply the CAMPO 2040 TDM to multiple projects/studies during the term of this license agreement, under the General terms and conditions specified above, as well as any specific conditions as noted below.
(one of the following must be checked if Condition 2 Applies) Is Allowed ☐ is Not Allowed ☐	To use and present a model as a **CAMPO Derivative TDM Type A or B**, LICENSEE/CONSULTANT, at their own risk, agrees to ensure that TDM modifications satisfy the CAMPO 2040 TDM sharing structure as detailed in Exhibit 2 for Derivative TDM Types A and B. CAMPO staff is available to review and discuss the proposed (or completed) changes to the TDM to ensure conformity for applications. Derivative TDM Type C usage is covered only under Condition 1. If the "**Non-Conforming Use of Model Components is Allowed**" box to the left is checked, the LICENSEE/CONSULTANT is authorized under this License Agreement to utilize CAMPO 2040 TDM components as a non-Derivative, Non-conforming Model, with the following restrictions. LICENSEE/CONSULTANT agrees to credit CAMPO for providing the CAMPO 2040 TDM for use using terms such as "starting point", "inputs", and "aspects" from the CAMPO 2040 TDM. To avoid confusion between possible differing results from Non-conforming Models, the LICENSEE/CONSULTANT agrees to clearly and consistently differentiate the Non-conforming Model, and any associated findings and results, from the CAMPO 2040 TDM. This includes not using "CAMPO" in naming or referencing the Non-conforming Model; or citing any findings or results from the model being "from" the CAMPO 2040 TDM or "based on" the CAMPO 2040 TDM; or otherwise implying that the local- or sub-area model is derived from or a derivative of the CAMPO 2040 TDM adopted plan model. The LICENSEE/CONSULTANT intentionally claiming a Non-Conforming Use of CAMPO 2040 TDM as an ADOPTED PLAN TDM or DERIVATIVE TDM or using a CAMPO 2040 TDM for other than the authorized project may have their license immediately terminated and may be denied a new CAMPO 2040 TDM license agreement for up to three years. **All General Conditions still apply.**

Check if:	Additional Specific Conditions
Additional Special Conditions Apply: ☑	☑ Note that Alliance is a consultant to Williamson County on this project. Alliance will run the CAMPO model in support of HNTB as the General Engineering Consultant to Williamson County. ☑ Forecasting will utilize the version of the CAMPO model ☑ licensed to Wilco under the Wilco Long Range Plan.

Signatures

CAMPO

By: _____

Title: _____

LICENSEE

By: _~~(signature)~~_

Title: _County Judge_

_11-16-2017_

CONSULTANT

By: _____

Title: _____

Exhibit 1 CAMPO TDM Model Sharing Framework

Model Types	Applicable Scenarios
CAMPO Adopted/ Amended Plan TDM	The Adopted Plan Model includes Base Year Calibration and Forecast Year Plan Analysis Model Runs and Analysis of Output Directly from These Runs. Potential uses include: • Background Traffic/Distribution for Site -Specific Analysis • Noise and Air Quality Conformity Analysis in Support of Plan User may refer to the model used under these scenarios as: "CAMPO Adopted/ Amended Plan TDM".
CAMPO Derivative TDM (for Alternatives Analysis)	A regional TDM serves as a tool for multiple jurisdictions and entities, both public and private, to examine transportation scenarios and solutions, referred to here as "Alternatives Analysis". Potential applications which maintain the CAMPO TDM integrity while allowing alternatives testing include: • **Type A – Minor Highway/Transit Edits with Static Plan Trip Tables** User may make localized, minor highway and/or transit edits which are not anticipated to have substantial regional impacts to trip distribution or mode choice (as agreed to in advance by CAMPO staff). User will assign static trip tables from the CAMPO Adopted/Amended Plan TDM using CAMPO's assignment algorithm. • **Type B – Localized Demographics Edits and/or Minor Highway/Transit Edits** User may make localized, minor demographic and highway/transit edits which are not anticipated to have substantial regional impacts to trip distribution or mode choice (as agreed to in advance by CAMPO staff). Region-wide control totals must be maintained and user must apply the full CAMPO Model Stream, including Feedback Loop. • **Type C – Other Alternatives Scenarios** With prior discussion and approval by CAMPO modeling staff, the CAMPO TDM may be modified for a particular study purpose and still operate as a Derivative TDM. User may refer to the model used under these scenarios as: "CAMPO Derivative TDM" or "CAMPO Alternatives Analysis Model".
Non-Conforming Models and Uses	Non-conforming Uses of the CAMPO TDM include but are not limited to: • Alteration or Adjustment of TDM Inputs, Settings, or Component Algorithms, including the Application Model Stream • Alteration of TDM Output or Mid-Stream Input/Output Data • Using CAMPO TDM Output as Input to Other Models/Software Platforms • Extraction and Use of Model Components as a Basis for a New TDM, including Local-Area Sub-Models without CAMPO Permission (see below) Unless expressly provided permission as part of a formal license agreement and within the above Derivative or Non-Conforming with Permission Model Type context (see below), user does not have permission to use the CAMPO TDM, reference the CAMPO TDM, or cite any findings or results from the model being from the CAMPO TDM.

Exhibit 1 CAMPO TDM Model Sharing Framework

Model Types	Applicable Scenarios
Local or Sub-area Models (Non-conforming With Permission)	Extraction and Use of TDM Components for a New TDM, including Local- or Sub-Area Models, is not considered Derivative of the CAMPO TDM. However, CAMPO reserves the flexibility to approve use of CAMPO TDM components to facilitate others' planning efforts. In the most common example, CAMPO has a long-standing practice of making the CAMPO TDM available to local partner agencies as a starting point in the development of local- and sub-area models. With prior discussion and approval by CAMPO modeling staff, the CAMPO TDM may be used for this type of purpose. CAMPO should be credited for providing the CAMPO TDM for use using terms such as "starting point", "inputs", and "aspects" from the CAMPO TDM. To avoid confusion between possible differing results from this non-Derivative application, the user does not have permission to cite any findings or results from the model being "from" the CAMPO TDM, "based on" the CAMPO TDM, or otherwise imply that the local- or sub-area model is derived from or a Derivative of the CAMPO TDM adopted plan model. The LICENSEE/CONSULTANT intentionally claiming a Non-Conforming Use of CAMPO TDM as an ADOPTED PLAN TDM or DERIVATIVE TDM or using a CAMPO TDM for other than an authorized project may have their license immediately terminated and may be denied a new CAMPO TDM license agreement for up to three years. Likewise the LICENSEE/CONSULTANT that shares or distributes the CAMPO TDM with or to any other entity without written permission from CAMPO may have their license immediately terminated and may be denied a new CAMPO TDM license agreement for up to three years. CAMPO will maintain a current list of LICENSEE/CONSULTANTs denied a CAMPO TDM and will make such list available to the public upon request.

Exhibit 2 Checklist of CAMPO Shared Model Components

	Plan Model	Derivative Analysis TDMs			Non Conforming
		A	B	C	
Geographic/Attribute Data					
Use Adopted Plan TDM Internal Zonal Demographics	☐	n/a	TBD	TBD	☐
Use Adopted Plan TDM Internal Zone Boundaries and Number	☐	n/a	TBD	TBD	☐
Use Adopted Plan TDM Highway Geography/Attribute Data	☐	Minor	TBD	TBD	☐
Use Adopted Plan TDM Transit Geography/Attribute Data	☐	Minor	TBD	TBD	☐
Use Adopted Plan TDM Highway Speed/Capacity Table	☐	☐	☐	☐	☐
Use Adopted Plan TDM Transit Speed Assumptions	☐	☐	☐	☐	☐
Model Stream Application					
Use "All Stages" with Feedback "On" (all required steps)	☐	☐	TBD	TBD	☐
Use "Single Stages" Application	☐	☐	☐	☐	☐
Trip Generation					
Use Adopted Plan TDM Trip Generation Output Directly	☐	n/a	TBD	TBD	☐
Or, if Making Changes to Stage Inputs:					
Perform All Sub-Models (HH Size, HH Inc, Workers per HH)	☐	n/a	☐	☐	☐
Trip Distribution					
Use Adopted Plan TDM Trip Distribution Output Directly	☐	n/a	TBD	TBD	☐
Or, if Changes Made to Inputs:					
Use Adopted Plan TDM External Through Trip Tables Directly	☐	n/a	TBD	TBD	☐
Perform "Import Person Trips to MTX" Step	☐	n/a	☐	☐	☐
Mode Choice					
Use Adopted Plan TDM Mode Choice Output Directly	☐	n/a	n/a	n/a	☐
Or, if Making Changes to This Stage:					
Skim Highway Network	☐	n/a	n/a	n/a	☐
Skim Transit Route System	☐	n/a	n/a	n/a	☐
Apply Autos per Household Model (if demographics changed)	☐	n/a	☐	☐	☐
Perform Market Segmentation (if transit was edited)	☐	n/a	☐	☐	☐
Use Adopted Plan TDM Mode Choice Inputs/Settings	☐	n/a	☐	☐	☐
Perform Mode Choice using CAMPO 2040 TDM Mode Choice Model	☐	n/a	☐	☐	☐
Trip Tables					
Use Adopted Plan TDM Trip Tables (all modes)	☐	n/a	n/a	n/a	☐
Or Create Applicable Trip Tables	☐	☐	☐	☐	☐
Assignment					
Perform Applicable Assignments (CAMPO TDM Algorithm)	☐	☐	☐	☐	☐

☐ = Step is Required to Conform to CAMPO Model Type   "n/a" = Not Applicable

"Minor" = Minor edits, with CAMPO staff reserving the discretion to determine what qualifies
"TBD" = To Be Determined based upon discussion with CAMPO staff
NOTE: Any use of the CAMPO model which does not fit into the above usage type structure shall be considered a "Non-Conforming or Divergent Use"; see License Agreement for limitations.