

**AMENDMENT NUMBER 1 TO
AGREEMENT BETWEEN
PARSONS BRINCKERHOFF MICHIGAN, INC.
AND
THE CITY OF ANN ARBOR
FOR PROFESSIONAL SERVICES**

The City of Ann Arbor, a Michigan municipal corporation, with offices at 301 E. Huron St. Ann Arbor, Michigan 48107-8647 ("City") and Parsons Brinckerhoff Michigan, a Michigan corporation with its address at 500 Griswold Street, Suite 2900, Southfield, Michigan 48226 ("Consultant") agree to amend the professional services agreement for the project South State Street Transportation Corridor and Conceptual Engineering Design Plan executed by the parties August 5, 2014, as follows:

1) Article III.A. Services, is amended to read as follows:

The Consultant agrees to provide professional community engagement, planning and design services ("Services") in connection with the Project as described in Exhibits A and A-1, including the more specific schedule dates added by Exhibit A-1. The City retains the right to make changes to the quantities of service within the general scope of the Agreement at any time by a written order. If the changes add to or deduct from the extent of the services, the contract sum shall be adjusted accordingly. All such changes shall be executed under the conditions of the original Agreement.

2) Article IV.A. Compensation of Consultant is amended to read as follows:

The Consultant shall be paid in the manner set forth in Exhibits B and B-1. Payment shall be made monthly, unless another payment term is specified in Exhibit B, following receipt of invoices submitted by the Consultant, and approved by the Contract Administrator. Total compensation payable for all Services performed during the term of this Agreement shall not exceed \$365,198.50

All terms, conditions, and provisions of the original agreement between the parties executed August 5, 2014, unless specifically amended above, are to apply to this amendment and are made a part of this amendment as though expressly rewritten, incorporated, and included herein.

This amendment to the agreement between the parties shall be binding on the heirs, successors and assigns of the parties.

Dated: _____, 2017

FOR CONTRACTOR

FOR CITY OF ANN ARBOR

By _____

By _____
Christopher Taylor, Mayor

By _____
Jacqueline Beaudry, City Clerk

Approved as to substance:

Howard S. Lazarus, City Administrator

Craig A. Hupy, PE, Public Services Area
Administrator

Approved as to form and content:

Stephen K. Postema, City Attorney

EXHIBIT A-1

ADDITIONAL WORK PLAN ITEMS

The PB Team proposes the following work plan for this study, based on project activities since early 2014. The Work Plan has been updated to reflect additional scope items to be performed at the request of the City.

Task 4: Preparation of Alternative Conceptual Plans

Task 4.2.1: Preferred Alternative Modeling

The original scope of work called for analysis of a single preferred alternative using VISSIM microsimulation. However, at the City's request in order to further refine the preferred alternative, WSP | Parsons Brinckerhoff will undertake the following sub-alternative analyses using VISSIM:

- State Street/Airport Intersection:
 - a. Roundabout
 - b. Direct Left Turns
 - c. Existing geometry with updated median and indirect left traffic to E/W crossovers
- 3rd NB lane from Airport to I-94 to reduce NB queue spill back to Ellsworth
- Hilton/Victors Way Intersection:
 - a. Signalized control
 - b. Unsignalized
 - c. Victors Way signalized only
- I-94 Interchange
 - a. Recommended alternative (adding full signalization of ramp terminals)
 - b. Sensitivity test of existing condition to determine the increase in travel delay due to full signalization
 - c. WB I-94 off-ramp dual left-turn configuration

Each of these alternative tests will require a full run of the corridor model, signal timing adjustments for the corridor, and a summary of model results for each of the independent model runs.

Deliverables:

- 4.2.1 VISSIM files for each alternative (electronic)
- 4.2.2 Results summary tables

Task 5: Develop Conceptual Engineering Design Plans and Final Summary Report

Task 5.1.1: Preferred Alternative:

In order to offset some of the additional costs incurred from Task 5.1, it was agreed that the final deliverables for the preliminary design of the preferred alternative would be

modified. Attachment 1 provides the updated survey requirements and provides a summary of the design deliverables to be provided.

Task 5.4: Illustrative Alternatives:

The original scope of services called for high-level conceptual-level layouts of the illustrative alternatives in order to make a selection of a preferred alternative:

In order to satisfy feasibility concerns of the City PB will complete 30% design-level plan view layouts of each of the illustrative alternatives. Design files will be made available in AutoCAD electronic files for the review and records of the City.

Deliverables:

- 5.3 Draft Final Summary Plan Report
- 5.4 Illustrative Alternative Design Files (electronic, DWG format)
- 5.5 Survey data package (electronic), as detailed in Attachment 1
- 5.6 Preferred alternative preliminary design package (electronic, PDF), as detailed in Attachment 2

The proposed schedule for remaining tasks:

- | | |
|--|--|
| Deliver draft public meeting materials (Deliverable 5.1) | 4 weeks from NTP (April 24) |
| Conduct public meeting (Deliverable 1.3) | 6 weeks from NTP (May 8) |
| Deliver draft final project report (Deliverable 5.3) | 4 weeks from conclusion of public meeting (June 8) |
| Deliver draft project plan set (Deliverables 5.3, 5.4) | 4 weeks from conclusion of public meeting (June 8) |
| Deliver final project report (Deliverable 5.2) | 3 weeks from receipt of written comments (June 29) |
| Deliver final project plan set (Deliverable 5.5) | 3 weeks from receipt of written comments (June 29) |
| Deliver electronic work products (Deliverable 5.6) | At final delivery of project report and plan set (June 29) |

EXHIBIT A-1 ATTACHMENT 1 - SURVEY DATA PACKAGE (ELECTRONIC)

The City of Ann Arbor Project Management Services Unit requests and receives project packages from internal resources and various consultants for surveys of public streets, public utility easements and other bounded topographical surveys for the preparation of civil engineering construction plans. The desired surveying services will include the gathering of topographical survey data and providing digital submissions. It is understood that the final work product will be a complete survey that will contain all known site features and will be ready for use as a base drawing for final engineering plans involving public facilities within the project area. The survey package will be reviewed and accepted by the Project Manager.

The checklist below summarizes the required contents of the package. Consultants shall use the checklist to indicate that all applicable items have been included. A completed copy of this form must be signed and submitted with the survey package. The consultant should also review the *RFP for Services* document (including any additions) and the current City CAD Standards. In the event that any of the applicable listed items are missing from a submittal, the Project Manager will immediately notify the consultant of deficiencies.

Item No.	Item	Description	Included?	Comments
1	Digital Submission	Include an AutoCAD format base drawing, with all project survey points (COGO) inserted; bench marks, witnesses and control points in Simplex, Oblique=15 deg, paper space height 0.10" text style.	YES	
2	Survey Notes	Include, in bound notebook; control information, alignment information, structure data notes (including size and condition of sanitary manholes and storm sewer and water structures), copy of all field notes, and any source information not part of the City-provided as-built package (point listings are not required)	NO	No survey notes were collected due to LiDAR method of survey

Digital submission:

The City of Ann Arbor currently uses AutoCAD Civil 3D 2015 software.

1. If using Civil 3D, a base template drawing, provided by the City of Ann Arbor, is to be used for importing survey data. Request a copy of the current template file upon award of survey.
2. If not using Civil 3D, imported points and feature lines must be in an AutoCAD 2015 drawing file format. Provide an AutoCAD drawing file containing the points, feature lines used to create 3D break lines, and the final surface. The preferred formats for data collection point files are ".fbk" or ".txt" file (PNEZD comma delimited); point description key to be provided by City of Ann Arbor.

3. Planimetrics to be AutoCAD 2015 or earlier, layering standards to be provided by the City of Ann Arbor. All linework in the base topographic drawing are to be comprised of polylines with an elevation of zero. Text heights for labels are to be Simplex with a paper space height of 0.10" and Oblique of 15 degrees.
4. Coordinate with other city service areas, local agencies, etc.

Topographic Survey

All topographic features on a project site will be located. This includes man-made and natural terrain features that the surveyor will come across. Elevation data will be obtained as needed for sufficient project design, quantity computations and drainage studies.

<i>Item No.</i>	<i>Description</i>	<i>Included</i>	<i>Comment</i>
1	State Plane Coordinate system and City of Ann Arbor datum is to be used. NAVD88 and horizontal datum of NAD83 (Michigan State Plane coordinates, international feet). Translation should not be used.	YES	
2	Current City standard template has been used for model space base drawing. Base drawing and any related AutoCAD drawing files are in 2015 format.	NO	
3	City standard blocks (symbols) have been used	NO	
4	City standard line types have been used appropriately	NO	
5	City standard text styles have been used appropriately	NO	
6	City standard dimstyles have been used appropriately	NO	
7	City standard layers are used appropriately and any extraneous layers have been purged/deleted	NO	
8	A north arrow, street names and consultant logo have been included in the base drawing	NO	
9	Site survey notes are included in model space, aligned with associated topo items and with text style Simplex, Oblique=15 degrees, paper space height=0.10".	NO	No survey notes were obtained due to the use of LiDAR as the survey method
10	Benchmark, witness and control point information is included	YES	
11	All <u>public City</u> utilities are shown and labeled in the base drawing appropriately (sanitary sewer, water main and storm sewer)	YES	Public utility information was obtained from city GIS sources
12	Right-of-ways and centerlines are shown and dimensioned	YES	Will not be dimensioned

13	Section corners, section lines and associated bearings and distances have been included for the section(s) that contain the entire limits of the survey project	YES	
14	All ROW lines, easements, adjacent property boundaries, found property corners and monumentation located and shown. Copies of all records, measurement data, and calculations used to determine the alignment shall be part of the survey notes	YES	
15	Rights-of-way and centerlines are shown and dimensioned.	YES	Will not be dimensioned
16	Locate all surface features within and a minimum of 25' beyond the right-of-way along a street.	YES	The survey conducted included features up to 10' beyond right-of-way
17	All public and private utilities located and identified.	YES	
18	Driveways - locate to a minimum of 40 feet beyond right-of-way or sidewalk for grading design.	YES	The survey conducted included driveways and intersecting streets to 10' beyond the right-of-way limits. The survey obtained is sufficient for the
19	Intersecting streets - Sidewalks to a sufficient distance beyond first driveway/lead walk; minimum 20 feet. Roadway to 200 feet from intersection.	YES	Submittal will include curb ramps, but no flags were captured.
20	Curb ramps should have all 4 corners of the "turning space" and 10 adjacent flags of the walk transition located.	YES	
21	Sufficient ground elevations for creation of a digital terrain model (DTM) for one (1) foot contours, including around curb radii and through intersections. Along curves in street, sufficient survey points have been taken to create reasonable feature lines (without crossing)	YES	
22	Survey feature lines, 3D break lines, shall be included as part of the final digital submittal.	YES	
23	All building entrance doors shall be located and elevations are to be included survey and shown pictorially in the base drawing (typical in areas where buildings are at or near ROW).	NO	
24	All finished and basement floor elevations shall be obtained and shown in the plan and profile views of all relevant drawings.	NO	
25	Retaining walls (top and both sides at bottom) and steps (top and bottom steps, at both ends of each) are to be included.	YES	
26	All trees within project limits located. Include trunk diameter at breast height (DBH) and canopy diameter - 6" or greater DBH or a canopy that may impact the project.	YES	Trunk diameter was collected and will be included in the submission, however, canopy was not collected.

27	Surface and underground drainage information is to be assembled by the surveyor. The surveyor should obtain record plans of any City utilities crossing the project and report any observed differences, and potential drainage problems.	NO	
28	The construction type and condition of each structure and connecting pipe shall be fully described. Connections between manholes and catch basins must be determined.	NO	
29	The location of all structures and drainage pipes, as found, are to be shown on a base map. Prepare separate, hard-copy, 1=20' scale plots to show measurements of underground storm drain systems and include with the project notes. Show direction of pipe flow.	NO	
30	Include type and size of structure, measured casting elevations, measured invert elevations of sewers, and top of pipe elevation for water main.	NO	
31	Obtain structure and connecting pipe information outside the project limits; locate nearest downstream/upstream structures that tie into project area.	NO	
32	Overhead utility information shall include location and type of utility.	NO	

EXHIBIT A-1 ATTACHMENT 2 – DESIGN PLAN SET SCOPE FOR PREFERRED ALTERNATIVE

1. Title Sheet
 - a. Location map
 - b. POB & POE
 - c. Traffic data
 - d. North arrow
 - e. County, city/village, section, town and range
 - f. Unit leader/consultant
 - g. Station equations and structure numbers
 - h. Legend
 - i. Plan sheet index

2. Typical Cross Sections (four total: South of Airport Drive, between Airport Drive and I-94, between I-94 and Eisenhower Parkway, north of Eisenhower Parkway)
 - a. Existing
 - i. Stationing
 - ii. ROW
 - iii. Pavement and shoulder widths
 - iv. Depth and width of bituminous/concrete, base and subbase
 - v. Crown location and pavement slope
 - b. Proposed
 - i. Stationing
 - ii. ROW
 - iii. Survey and construction centerline
 - iv. Crown location and pavement slope
 - v. Lane and shoulder widths

3. Standard Symbol Sheet (legend sheet)

Notes:

- Profile will be developed and provided as an electronic (DWG) file
- Utility information was previously provided as a spreadsheet

**EXHIBIT B-1
FEE SCHEDULE FOR ADDITIONAL WORK PLAN ITEMS**

South State Street - Amendment 1 Fee Proposal						
	<u>TASK 5 HOURS</u>	<u>TASK 4 HOURS</u>	<u>TOTAL HOURS</u>		<u>BURDENED HOURLY RATE*</u>	<u>LABOR COST</u>
Parsons Brinckerhoff						
Barbara Arens, PIC	0	0	0	x	\$ 286.01	\$ -
Scott Shogan, Project Manager	62	60	122	x	\$ 247.17	\$ 30,154.49
Jason Pittenger, Traffic Engineer	0	160	160	x	\$ 89.54	\$ 14,326.96
Tim Day, Lead Roadway Engineer	80	0	80	x	\$ 139.86	\$ 11,188.43
Matt Chumbley, Roadway Engineer	224	0	224	x	\$ 106.00	\$ 23,744.87
Dan Beard	40	0	40	x	\$ 93.64	\$ 3,745.76
TOTAL HOURS FOR PARSONS BRINCKERHOFF	406	220	626			
Direct Expenses						
Mileage	540.00	@	0.535	/mile		\$ 288.90
Board Mounting						\$ -
Total for Parsons Brinckerhoff						\$ 83,449.40
LSL Planning						
Brad Strader, Lead Planner and Public Involvement Lead						=
Sherrin Hood, Project Planner						=
Assistant Planner / Graphics						=
TOTAL HOURS FOR LSL PLANNING						\$ (20,189.82)
Direct Expenses						
Mileage and Reproduction						\$ -
Total for LSL Planning						\$ (20,189.82)
Surveying Solutions, Inc.						
Jeff Bartlett, Project Surveyor						=
Andrew Semenchuk,QAQC Surveyor						=
Brent Everitt, LiDAR Specialist						=
Jake Knochel, Senior Crew Chief						=
Darrel Bluemlein, Survey Technician						=
Matt Cook, Survey Technician						=
Mark Ursuy, CADD Technician						=
TOTAL HOURS FOR SSI						\$ (825.76)
Direct Expenses						
Mobile LiDAR Equipment						\$ -
Total for Surveying Solutions, Inc.						\$ (825.76)
Vendors						
MKSK						\$ 1,919.14
Traffic Data Collection						\$ 934.00
Total for Vendors						\$ 2,853.14
	<u>TASK 5 HOURS</u>	<u>TASK 4 HOURS</u>	<u>TOTAL HOURS</u>			
TOTAL HOURS FOR ALL CONSULTANTS						
TOTAL COSTS						\$ 65,286.96

* Overhead for Parsons Brinckerhoff is 162%, overhead for LSL Planning is 159%, overhead for SSI is 188.5%, fee is 11%