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November 3, 2017

Mr. Anthony J. Ruggiero, M.P.A.
City of Beacon
One Municipal Plaza, Suite One
Beacon, New York 12508

RE: South Avenue Bridge – P.O. 20161208
AMENDMENTS TO ORIGINAL AGREEMENT

Dear Mr. Ruggiero:

As you know, on September 12, 2016 Modjeski and Masters entered into an agreement with the City of Beacon to provide engineering services for the design of a new bridge across Fishkill Creek on South Avenue. That agreement was to provide those services for the not to exceed fee of \$236,904.37. Subsequent to the execution of that agreement a P.O. #20161208 was issued by the city for this amount.

In December of 2016, a public workshop held by the City Council resulted in a request to change the scope to include additional preliminary cost studies and photo based simulations of the proposed bridge. An Amendment 1 was provided to the city in the amount of \$24,169.67 to reflect this change in scope. Shortly after beginning the work added under Amendment 1, another City Council Workshop was held in January of this year resulting in yet more changes to the configuration of the bridge. As a result, work was stopped on some of the additional work items included in Amendment 1 and Amendment 2 was submitted. Yet another change has been requested by the City to try to get a one-lane bridge approved by the NYSDOT. This has resulted in the need for a traffic study, socio-economic studies and a full-blown design report. This Amendment 3 has resulted in estimated additional design costs of \$72,553.60. Therefore, the total amended not to exceed amount for the contract is now $\$236,904.37 + \$24,169.67 + \$46,363.08 + \$72,553.60 = \$379,990.72$

We therefore request that our agreement and Purchase Order be amended to reflect the new not to exceed amount of \$379,990.72.

Due to the significant change in the scope of this project and the additional design, traffic studies and environmental studies that have resulted, we further request that the date for completion shown in the amended paragraph 3 of our agreement as September 15, 2017 be extended to June 30, 2018.



Mr. Anthony J. Ruggiero

2

November 3, 2017

Please acknowledge your acceptance of these changes to the contract amount and the completion date by signing and dating below.

Should you have any questions or wish to discuss this matter further, please do not hesitate to give me a call.

Very truly yours,


Barney T. Martin Jr., Ph.D., P.E.
President

BTM:btm
Attachments (Amendments 3)

Approval of Requested Agreement Changes

Mr. Anthony J. Ruggiero, M.P.A

Date



Exhibit B
Direct Expenses

Modjeski and Masters

Lodging & Meals	0	mandays @	\$200.00	
Mileage	240	miles @	\$0.55	\$132.00
Photographs:	100	Digital Prints @	\$0.30	\$30.00
Printing & Reproduction				
Blue Lines	50	@	\$1.05	\$52.50
Plots	150	@	\$1.50	\$225.00
Films	25	@	\$5.00	\$125.00
Photocopying				
11" X 17" Plans	250	@	\$0.40	\$100.00
8 1/2" X 11" Sheets	4000	@	\$0.08	\$320.00
Covers	60	@	\$1.00	\$60.00
Express Mail				\$100.00
		Direct Subtotal (Task 7)		\$1,144.50
Environmental Engineer (Shumaker (WBE)				
Socio-Economic Studies				\$7,000.00
SIMCO Engineering (MBE)				
Traffic Study				\$40,215.50
		TOTAL		\$48,360.00

Exhibit C
Total Cost Summary

Modjeski and Masters

Alt. 1 & 2

Item I	Loaded Direct Technical Salaries (see Exhibit A)	\$24,193.60
Item II	Direct Non Salary Costs (See Exhibit B less surveying)	\$48,360.00

TOTAL **\$72,553.60**

Credit for work deleted from Amendment 1

|| **GRAND TOTAL** **\$72,553.60**

South Avenue Bridge – City of Beacon

SCOPE OF SERVICES**Task 1. Data Collection**

Available transportation data from previous studies (e.g., traffic studies, EIS documents for other developments, and agency planning documents) pertaining to the proposed study area will be utilized whenever possible. Data that is older than three years will be evaluated to determine whether it is appropriate for utilization in this study. SIMCO will collect peak period vehicle turning movement counts during on one midweek day (i.e. Tuesday, Wednesday, or Thursday) between 6:30 - 9:30 AM and 4:00 - 7:00 PM using cameras. The counts will be summarized in 15-minute increments for 2 vehicle classes (cars and heavy vehicles) at the following locations:

1. Slocum Road and Breakneck Road (Route 9D)
2. Grandview Avenue and Wolcott Avenue (Route 9D)
3. South Avenue and Tioronda Avenue
4. Tioronda Avenue and Wolcott Avenue (Route 9D)
5. Sargent Avenue, Teller Avenue, and Wolcott Avenue (Route 9D)
6. South Avenue and Wolcott Avenue (Route 9D)

Conduct two-direction ATR counts at two locations for 4 continuous weekdays.

Cameras will also be placed in both directions at the following locations during the same periods as the turning movement counts to collect license plate data for use in an origin/destination study:

1. Breakneck Road (Route 9D) south of Slocum Road
2. Tioronda Avenue south of Wolcott Avenue (Route 9D)
3. Sargent Avenue south of Wolcott Avenue (Route 9D)
4. South Avenue south of Dennings Avenue

Signal timing data will be requested from the relevant agency (NYSDOT, Dutchess County, City of Beacon, etc.) and compared to field data. In addition, a field inventory will be conducted at the study intersections to collect the following information: lane widths, pavement markings, signal timing, turn prohibitions, location and duration of any traffic queues, and photo log.

Task 2. Traffic Volumes and Forecasts

Based on the counts, existing condition traffic volumes will be developed for the six intersections for two time periods (weekday AM and PM peak periods).

Future conditions without the project are essential in determining the relative impacts to the surrounding transportation facilities and communities. Comparisons will be made to the existing condition to establish the future baseline operations. Future No Build condition vehicular traffic volumes in the study area will be forecasted using appropriate growth factors obtained from the local municipalities including any additional vehicular trips expected to be generated by major developments that have been approved, are in the process of being approved for construction, or are expected to be implemented by the future Build Year in the study area. Planned or committed major roadway or infrastructure improvements in the study area will also be considered to forecast future traffic flow and transportation system conditions. No Build



condition traffic volumes will be developed for six intersections for two time periods (weekday AM and PM).

Future traffic volumes that reflect the completion of the new bridge will be forecasted based on the results of the origin/destination study. The origin/destination study will use the license plate data to determine the number of peak hour vehicles that would feasibly use the new bridge connection. The No Build traffic volumes at the study intersections will be adjusted based on the origin/destination study resulting in Build condition volumes at the six study intersections for the two time periods (weekday AM and PM peak periods). Traffic flow diagrams will be developed for the study area intersection for the weekday AM and PM peak periods for the Existing, No Build, and Build Conditions.

Task 3. Traffic Analysis

A level of service (LOS) analysis, volume/capacity (V/C) ratios, and stopped delay values for intersection analyses will be computed in accordance with the standard procedure prescribed in the Highway Capacity Manual (HCM) using Synchro at six intersections for two time periods (weekday AM and PM peak hours). A tabular summary of the Existing, No-Build, and Build condition analyses will be presented for the traffic analysis results. Only one Build condition will be studied. Comparisons will be made between the Build and No Build conditions to the results of the traffic analyses to determine if there are projected to be any impacts. Mitigation measures will be proposed where impacts are identified as part of the analyses.

Task 4. Report

SIMCO will prepare a draft of text for the applicable section of the Design Report. It will be reviewed by the client and after one round of comments, the final text will be prepared and submitted the client.

10/18/2017

		Project	Project	Assistant			
Task		Manager	Engineer	Engineer	Engineer	Technician	Total
1	Data Collection	4	8	40	40	0	92
2	Traffic Volumes and Forecasts	8	22	24	24	0	78
3	Traffic Analysis	8	26	40	39	0	113
4	Report	8	24	10	9	0	51
5	Meetings	0	0	0	0	0	0

SIMCO Expenses:	Mileage	\$0.535	300	\$160.50
	Tolls	\$13.00	4	\$52.00
	Subway (round trip)	\$5.00		\$0.00
				\$212.50

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Martin, Barney T

From: KSaladis@shumakerengineering.com
Sent: Tuesday, October 17, 2017 1:50 PM
To: Martin, Barney T
Subject: Beacon Bridge Design Report

Barney,

A ballpark cost to generate the environmental portion of the Design Report is estimated at +/- \$6,500.00.

This assumes the following:

Asbestos Investigation will not be required – summary of previous investigation (performed by others) will be included in the DR

No detailed studies will be performed for Air Quality, Energy or Noise. If it is determined based on review of traffic info and other that these studies performed as part of the screening effort, that studies are required, they will be performed under a supplemental.

Still assumed that disturbance will not exceed one acre and a stormwater pollution prevention plan/management practices will not be required.

Others are performing the historic/cultural review efforts, and information will be provided to us to include a summary in the DR.

A separate hazardous waste and contaminated materials screening report will not be prepared; a summary of identified concerns will be included in the DR.

Detailed studies for species will not be required.

Includes time to address minor comments and resubmit.

Information regarding social concerns, accessibility, etc that you have received to date, will be provided to support our effort.

If you have questions or need anything else please let me know.

Thanks,

Kelly Saladis
Sr. Managing Environmental Scientist



"The Shumaker Difference"

143 Court Street
Binghamton NY 13901

Phone (607) 798-8081 Ext. 313 • Cell (607) 725 5448

ksaladis@shumakerengineering.com

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