

**AMENDMENT NO. 4
TO THE CONTRACT FOR PURCHASE OF
SERVICES
(DESIGN PROFESSIONALS)
CONTRACT 8852**

WILLOW CREEK WATERSHED STUDY

RECITALS

This amendment is for additional work beyond the scope of the existing agreement and consists additional analysis for existing conditions and evaluation of design alternatives.

1. On July 8, 2020, the City of Madison, hereinafter called the "City", and MSA Professional Services, Inc. hereinafter called the "Consultant" entered into a contract for a flood and stormwater modeling of the Willow Creek Watershed, Legislative File No.60251.
2. Article 9 and Article 10, of the contract, provided for amendment of the contract for additional services.
3. The City has authority to execute an amendment to this contract as provided by Council Legislative File No. 62842.

NOW THEREFORE, The City and the Consultant hereby agree to amend the contract as follows:

A. PROJECT DESCRIPTION

Amend project Scope of Work per the attached file, entitled "Willow Creek Watershed Study – Amendment #4.pdf".

B. COMPENSATION

Amend Paragraph 23 of purchase of services contract to increase the contract by \$10,725.00 for a new contract amount of \$242,596.00.

IN WITNESS WHEREOF, the parties hereto have set their hands at Madison, Wisconsin.

CONTRACTOR:

MSA Professional Services, Inc.
(Type or Print Name of Contracting Entity)

By: _____
(Signature)

(Print Name and Title of Person Signing)

Date: _____

**CITY OF MADISON, WISCONSIN
a municipal corporation:**

By: _____
Satya Rhodes-Conway, Mayor

Date: _____

Approved:

By: _____
David P. Schmiedicke, Finance Director

Date: _____

By: _____
Maribeth Witzel-Behl, City Clerk

Date: _____

Approved as to Form:

By: _____
Eric T. Veum, Risk Manager

Date: _____

By: _____
Michael Haas, City Attorney

Date: _____

Willow Creek Watershed Study – Amendment #4

Scope of Work

Task 1000. Additional Services

Sub-Task 1 - Provide estimated 100-yr flood elevations for development proposals near Vernon Boulevard and Price Place

Provide detailed model results for purposes of facilitating development proposals in the referenced project vicinity.

Total Fees - \$2,025.00

Sub-Task 2 - Street Centerline Inundation Assessments (zonal statistics) & Grid Cell Size Sensitivity Analyses

Support modeling and GIS activities regarding accuracy and precision of XP-SWMM modeling at different grid cell sizes and GIS display of model out using difference grid cell sizes. The intent of discussions is to determine the relative effect that model cell size vs. GIS cell size had on the ability to determine compliance with City flood reduction goals. Additionally, MSA will work closely with City GIS staff on GIS process techniques including python scripting, to develop processes for handling of data from watershed studies.

Provide the following informal deliverables to the City:

- XP-SWMM model variances, 10-40 foot grid cell sizes.
- Zonal Statistics Assessment
- XP-SWMM Outputs – Grid Cell Sizes

Total Fees - \$4,162.50

Sub-Task 3 - Inlet Capacity Analyses

Analyze possible inlet restricted conditions at six (6) different locations within the Willow Creek watershed.

Total Fees - \$2,137.50

Sub-Task 4 - Proposed Alternative Scenarios – Additional Mapping Analyses

Iterate the proposed alternatives point of comparison from the 'University Avenue Improved' condition to the existing (current) conditions to understand the impact of the proposed solutions on the current conditions and the current University Avenue reconstruction project.

Total Fees - \$2,400.00

TOTAL FEES = \$10,725.00