



119 E. Olin Avenue
Madison, Wisconsin 53713
Telephone: 608 266-4651
FAX: 608 266-4426

MEMORANDUM

Date: January 19, 2016

To: Water Utility Board

From: Dennis M. Cawley, PE
Al Larson, PE

Re: **2016 Painting Contract**
Recommendation to the Board for Engineering Services

Background

Madison Water Utility (MWU) advertised for proposals from interested, qualified firms to provide professional engineering services for the preparation of plans and specifications, and construction inspection services for the painting of three steel water storage reservoirs.

The Madison Water Utility has budgeted \$1,650,000 in the 2016 Operating Budget for the repainting of a 3 million gallon reservoir at 4724 Spanem Avenue (9), a 3 million gallon reservoir at 4701 Bunker Hill Lane (115), and a 500,000 gallon elevated storage tank at 3518 Cross Hill Drive (315).

Reservoir 9 was constructed in 1960 and is 106 feet tall and 79 feet in diameter. The exterior was recoated in 2002 but there is no evidence that the interior has ever been recoated with proper surface preparation.

Reservoir 115 was constructed in 1966, and is 46 feet tall and 110 feet in diameter. In 2001 the interior was properly recoated but the exterior was just brush coated without recommended surface preparation.

Reservoir 315 was constructed in 1994 and is a 116 foot tall golf ball style reservoir that has never been recoated.

AWWA Standard D 102-14 Coating Steel Water Tanks, recommends that prior to repainting all steel surfaces be sand blasted in accordance with standards established by the Steel Structures Painting Council (SSPC) and the National Association of Corrosion Engineers (NACE).

The Water Utility seeks to hire a professional consultant with staff familiar with the SSPC standards and with inspectors certified by NACE.

Request for Proposal (RFP) and Advertising

Following approval at the November 2, 2015 Water Utility Board meeting, MWU Engineering staff advertised for qualified applicants to submit proposals to develop drawings, specifications and contract documents to complete this upgrade and correct an identified deficiency in the system.

A request for engineering design services was prepared for the project. The RFP was electronically transmitted to an engineering firm distribution list which includes over 30 different companies.

Advertising commenced on November 17, with proposals due on December 4.

Proposals

Four excellent proposals were received and distributed to a review committee of five Water Utility employees with expertise and knowledge of the project: Adam Wiederhoeft, Dennis Cawley, and Al Larson from Engineering; and Douglas Van Horn from Operations and Maintenance.

Review

The proposals were all reviewed and rated independently by each member of the committee. The committee then met on Tuesday, January 19th for further discussions. The proposals were evaluated within two main categories:

1. Project Understanding
 - a. Why the project is needed
 - b. Schedule
 - c. Understanding of the Madison process

2. Project Qualifications
 - a. Project Team
 - b. Work Experience
 - c. Project Management
 - d. Cost controls
 - e. Work samples
 - f. Madison approval process

The committee judged all four of the firms submitting proposals to be well qualified for the project. It was a difficult evaluation due to the fact very little separated the proposals and knowing that any of the firms could provide MWU with excellent service. Based on all information received, the proposals were ranked as follows:

	#1	#2	#3	#4
Strand Associates	3	3	3	3
Dixon Engineering, Inc	1	1	2	1
SEH, Inc.	1	2	1	2
KLM Engineering, Inc	4	4	4	4

Submitted hours were also considered as a part of the evaluation as a demonstration of the effort expected and as a demonstration of project understanding. These submittals were opened and

reviewed following discussion and ranking of the applicants. Submitted hours and costs are as follows:

	Hours	Costs
Strand Associates	553	\$ 72,900
Dixon Engineering, Inc.	2102	\$ 186,780
SEH, Inc.	1490	\$ 175,500
KLM Engineering, Inc		\$ 273,600

Recommendation

Based on all of the information submitted and discussed, the committee came to the consensus that Dixon Engineering was the most qualified firm for the 2016 Painting Contract. They have recent and relevant experience with water tower repainting in the State of Wisconsin, particularly in Wauwatosa, Cudahy, Franklin, and Whitefish Bay.

Further qualifications were supported by the detail provided in Dixon's proposal that reflected team experience, background research, and evident forethought regarding the anticipated effort to complete this project successfully.

The costs and projected hours submitted by Dixon Engineering with their proposal further reinforced their depth of understanding of the project and the challenges of developing a project that will meet MWU's needs. They provided a comprehensive description of the project and a detailed work plan that clearly demonstrated their understanding of the project, the challenges that MWU will face in completing the project, and all of the tasks needed to gain approval/acceptance of the project from regulating authorities and surrounding neighborhoods.

For these reasons, the committee unanimously recommends the hiring of Dixon Engineering, Inc. for the preparation of plans and specifications, and construction inspection services for the 2016 Painting Contract.