



321 Milwaukee Street • P.O. Box 340 • Menasha, WI 54952-0340 www.menashautilities.com

MEMORANDUM

TO: Mark Radtke, Director
Public Works

FROM: Melanie Krause
Co-General Manager/Business Operations

DATE: November 28, 2012

SUBJECT: Change Order Approvals & Recommendation for Award

At the Regular Meeting of the Menasha Utilities Commission on November 24, motions were approved requesting the Board of Public Works recommend to the Common Council authorization of Change Order #1 for Dorner Inc. in the amount of \$23,292.22, Change Order #2 to Dorner Inc. in the amount of \$3,228.00, Change Order #3 for Dorner Inc. in the amount of \$7,247.48, and Change Order #1 to Pieper Electric in the amount of \$498.00. There are contingency dollars available to fund each of these change orders.

At this same meeting the Menasha Utilities Commission approved a motion requesting the Board of Public Works recommend to the Common Council award of the Settling Basin project to the low bidder, Front Range Environmental in the amount of \$48,329.00 for East Basin repairs.

Copies of supporting documents are attached.

To: Menasha Utilities Commission
From: Tim Gosz, Water Plant Supervisor
Date: November 14, 2012
Subject: East Basin Repairs



On November 1, 2012 bids were received and opened in accordance with the Menasha Water Plant bid documents and in compliance with all State of Wisconsin regulations. The following bids were received:

- | | |
|-------------------------------------|---------------|
| 1. Front Range Environmental | \$ 48,329.00 |
| 2. Spectrum Contracting Corporation | \$ 60,902.00 |
| 3. Norcon Corporation | \$ 159,687.00 |

After inspecting all bid documents it is my recommendation to accept the Front Range Environmental bid of \$48,329.00. This bid is under the budgeted amount set aside for this project of \$65,000.00 and will accomplish our goals for this project. I did have a conversation with the Front Range Environmental representative Steve Daul, P.E. and confirmed that all aspects of the bid specifications would be addressed.

All work will be guaranteed for one year. The Basin north end will be coated with two layers of BASF ZincRich where there are exposed rebar. Then Xypex Crystalline cementitious slurry, followed by Xypex Modified slurry will applied as recommended by the Manufacturer to the entire north end of the basin. Both Xypex products to be applied are a cementitious slurry and it is the opinion of Steve Daul P.E. of Front Range Environmental the life expectancy would be very similar to cement. Deep spalls in the ceiling and cracks in the wall will also be addressed with RelinerMSP cement.

Confirmation was received by email:

From: Steve Daul
Sent: Tuesday, November 20, 2012 10:09 AM
To: Tim Gosz
Subject: East Basin Repairs-Service Life expectation- 25-50 Years

You had asked me to explain or quantify the expected service life of the products we are proposing to install for you. In a laboratory environment, these products will maintain their properties "forever." I would cap "forever" at 100 years in a lab. The reality is these products would be installed in an environment with relatively high moisture content. It is this type of environment that these products are designed, so it is an appropriate application.

The products are inorganic so they are not subject to deterioration due to mold, mildew, or bacteria. If aggressive cleaning agents are used, you might reduce the service life. With that being said I would reduce the service life from a 100 year expectation. The products are

designed to be water barriers so when they are properly installed, your agency should see a service life somewhere in the range of 25-50 years. As a Professional Engineer, I will be conservative in this estimate. The manufacturers have suggested that I use a service life of 75-100 years, but I feel that that is too optimistic and not taking into consideration the installation environment. We will be doing a 1 year warranty on this project. We would like to get some pictures of the project during the next time the basin is taken off-line for our files and to identify any defects that need to be repaired.

If you have any questions, please contact me. We look forward to working with you on this project and hope to do the same on your other basin in the future.

Thank you!

Steve Daul, P.E.
Division Manager
Front Range Environmental