

## Michael Jaeger

---

**From:** Severson, Phil <Phil.Severson@strand.com>  
**Sent:** Monday, February 20, 2017 11:47 AM  
**To:** Michael Jaeger  
**Cc:** Carlson, Jane  
**Subject:** Manitowoc WWTF Amendment  
**Attachments:** image001.png; 3516.018.15-01.3 (Owner Review 02172017).pdf

Mike,

Attached is the draft amendment for engineering during construction. As I mentioned previously, this amendment includes changes to our scope for preparing loan disbursement requests, the two prebid conferences during bidding, and the project scope increases that impact our construction administration for the City.

1. The bidding-related services had included one trip for bid opening. Instead of a bid opening we held two prebid conferences. The fee increase includes the one additional trip (second bid conference) and the additional preparation time and follow-up associated with the two prebid conferences.
2. The funding assistance services includes the addition of preparing and submitting the disbursement requests to the Wisconsin DNR for the City's Clean Water Fund loan. Previously, the City was going to prepare and submit the disbursement requests, but recently asked us to take care of the preparation instead. We anticipate submitting up to 18 monthly disbursement requests over the duration of construction.
3. The Scope of Construction Project includes the additions to the Administration Building HVAC system, the additional boiler controls, and additional boiler pumps. We did not request a change to increase our design fee for these changes to the project scope. For construction, however, there is additional effort and trips associated with these changes for shop drawings, construction administration (Contractor questions, etc.) and equipment start-ups. We anticipate being able to coordinate the additional trips to the site with other construction activities. For these project scope increases, we added two additional trips to our Construction-Related Services (changed from 40 to "42").
  - a. The original scope for the Administration Building HVAC system included controls replacement only. The bid project includes new HVAC equipment and controls in this area. The additional HVAC equipment to the project replaces ageing equipment that have operating issues, and provides a simpler HVAC system. The result achieves a longer-term solution than only replacing HVAC controls. The fee change includes the shop drawing reviews for the additional HVAC equipment, start-up reports, trips for observing start-up, testing and balancing, and control checkouts.
  - b. The original scope for the boiler includes replacing boiler No. 3 with a digester gas boiler. The bid project added a master boiler control for automatic operation of the existing boilers to remain (Boiler Nos. 1, 2, and 4) and the new boiler. The addition of boiler feed pumps also, allows for this automatic operation. Boiler No. 4 will be operable as a result of the master boiler controls and its boiler feed pump. The boiler room piping are is being modified to accommodate the pump additions. The fee change includes the shop drawing reviews for the additional boiler controls, boiler feed pumps, trips for observing start-up, and control checkouts.

The additional fees associated with this draft amendment are as follows.

1. Bidding-Related Services: \$5,000
2. Funding Assistance Services: \$15,000
3. Construction-Related Services: \$16,000

Please call me with questions.