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February 6, 2013

Mr. Wes Weaver, President  
Weaver Construction Management, Inc.  
c/o Garney Construction  
7911 Shaffer Parkway  
Littleton, CO 80127

***Via Email to: wes@weavercm.com  
No Hard Copy to Follow***

Re: Harold D. Thompson Regional Water Reclamation Facility (HDTRWRF)  
Lower Fountain Metropolitan Sewage Disposal District (LFMSDD)

Dear Wes:

Reference is made to your shop submittal identified as follows:

Submittal No.:	16700-004A
Date of Submittal:	January 28, 2013
Title:	Equipment and Maintenance Building SCADA System
Specification Section:	16700
Manufacturer:	Various

The referenced submittal has been stamped "***Make Corrections Noted***". Our comments are as follows:

1. Regarding the Browns Hill Engineering and Controls (BHEC) response for the Operations Building HVAC shutdown contact that no relevant HVAC information has been shared with them: We strongly recommend that WCMI share all available documentation with BHEC so this item can be completed. Upon reviewing the available HVAC documentation, should it be found that the single digital output for the HVAC shutdown command must be revised, please do so and resubmit the wiring diagram showing any and all changes.
2. Revise the number of digital input modules provided in the submitted PLC I/O List. With each module having 16 inputs, a total of four (4) modules is required to accommodate the fifty-three (53) listed digital inputs.
3. Based on the well test pumping data, it is recommended the low flow version of the submitted flow switch be provided. Please provide the low flow version flow switch in the same materials of construction indicated on the submitted product data sheet. As this item has adjustable actuation settings, we recommend initial settings of 0.5 gpm for actuation and 0.2 gpm for deactivation. These settings may be adjusted as necessary during startup procedures to best accommodate actual operating conditions.
4. Regarding the mounting system and hardware proposed: We had previously commented that the chain suspended sensor holder did not appear to have rigid support and we requested verification of a secure support mechanism to stabilize the sensor installation. The response comment indicated that the weight of the sensor and sensor holder would be enough to keep the sensors from moving too much. We respectfully request that a means of rigid support, or other

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means of secure stabilization, be provided to absolutely ensure the stability and safety of the sensors while in service at the proposed depths.

5. Regarding the revision of the aeration basin mixer tag numbers: Submittal drawing EM-6 must have the tag numbers corrected for sensors DO-A, ORP-A and pH-A in Aeration Basin No. 1 as it appears those tag numbers are copied from those in Aeration Basin No. 3. Please revise accordingly.

Please call if you should have any questions.

Sincerely,



Mark A. Morton, P.E.

MAM/kmw

ec (letter only):

Mr. Jim Heckman, Manager, LFMSDD, [jfmanager@lfmsdd.org](mailto:jfmanager@lfmsdd.org)

Ms. Cindy Murray, Office Manager, Fountain Sanitation District, [fsdistrict@fsd901.org](mailto:fsdistrict@fsd901.org)

Mr. Jeff Burst, Project Supt., Weaver Construction Management, Inc., [jeff@weavercm.com](mailto:jeff@weavercm.com)

Mr. John Jacob, Project Mgr., Weaver Construction Management, Inc., [john@weavercm.com](mailto:john@weavercm.com)

Mr. Adam Roeder, Weaver Construction Management, Inc., [aroeder@weavercm.com](mailto:aroeder@weavercm.com)

Mr. Gerardo Gomez, Garney Construction, [ggomez@garney.com](mailto:ggomez@garney.com)

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Mr. Mark Reasinger, P.E., Plant Engineering Consultants, Inc., [mreasinger@planteci.com](mailto:mreasinger@planteci.com)

cc (w/attachments): Mr. Jerry Miller, Resident Project Representative, GMS, Inc.