REQUEST FOR PROPOSALS
Construction Services
Biosolids Facility Aeration Upgrades
Project #2504-1504

ADDENDUM #1

Issued May 21, 2026

1.2 Proposal Submission

The Closing Date of the Request for Proposals has been changed from 3:00PM (local time), Wednesday, May 27, 2026, to **3:00PM (local time), Wednesday, June 10, 2026.**

3.1 Background Information

Existing Mechanical Pad Dimensions

A base and top dimension are provided as the pads are chamfered on all sides.

The Hibon pad (1) - Base: 2920mm x 1588mm x 100mm
- Top: 2870mm x 1511mm x 100mm

The Lamson pads (3) - Base: 1511mm x 864mm x 100mm
- Top: 2819mm x 787mm x 100mm

Blowers

Additonal parameters have been added to table 3.1.2 below:

Table 3.1.2: Summary of Blower Parameters

Parameter	Value
Type	Screw
No. of Units	3 (2 duty & 1 Standby)
Design Airflow per Blower (SCFM)	830
Total Airflow (SCFM)	1,660
Package Operating Pressure (psig)	8.5
Package Operating Efficiency (%)	87
Package Operating Power (HP)	77
Package Operation Power (kW)	57
VFD Type	ABB
No. of VFDs	2

Air requirements for the proposed fine bubble system are governed by mixing as the facility does not provide sufficient hydraulic retention time to support complete aerobic digestion. The mixing energy for fine bubble is assumed to be 0.0762 $m^3/min/m^2$ (equivalent to 0.25 $SCFM/ft^2$).

WAS is produced continuously at the CCWWTF and trucked in from other WWTFs Monday-Friday. Due to the limited retention time and reduced aerobic activity, the three tanks receive continuous aeration to prevent septicity, control odours, and maintain sludge homogeneity for consistent centrifuge feed as levels change. The VFDs will allow for adjustments to air flow based on changing tank levels from a max operation depth of 4.8 m to minimum of 1.0 m.

Blowers should be selected to meet the mixing requirements and maximize efficiency, remaining on the blower curve through all level conditions.

Diffusers and Lateral Air Piping

Each of the three (3) tanks has three (3) stainless steel drop legs (nine (9) total) to service the current diffuser configuration of three (3) loops per tank. The isolation valves associated with each drop leg are the ones noted as seized in item 3.1. Depending on the configuration of the new lateral piping these will need to be replaced or removed. The manual isolation valves on the drop legs do not provide air control during regular operations, they are used to isolate sections of the lateral piping and diffusers for maintenance.

The following information will require onsite confirmation by the successful proponent.

Type: Butterfly valve
Actuation: manual handwheel
Material of construction: Stainless steel
Size: 150mm diameter

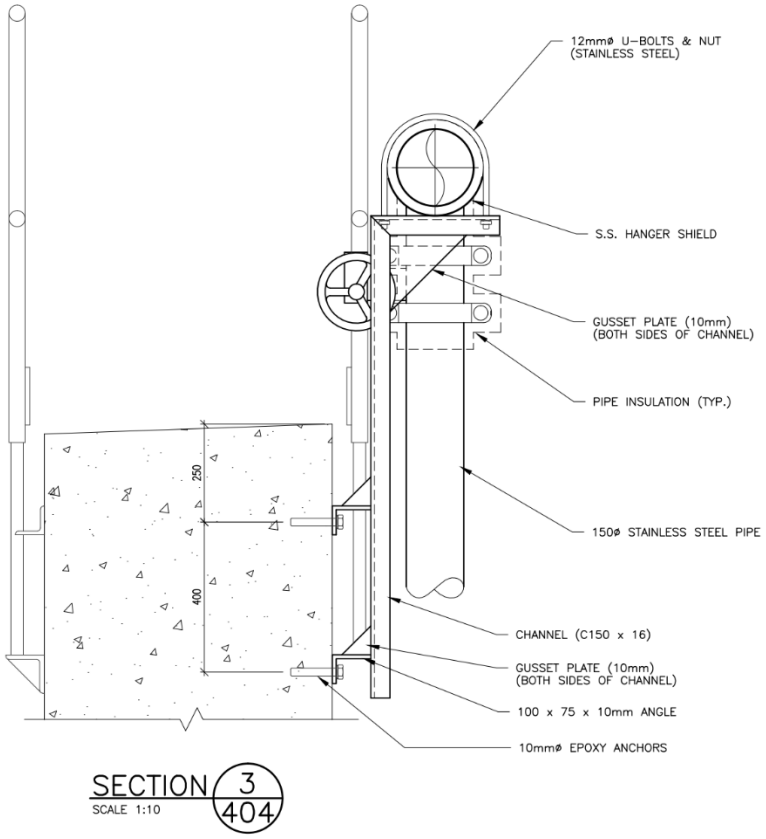

FIGURE 3.1.3 Excerpt from Record Drawings - typical drop leg connection to tank

END OF ADDENDUM #1