GWINNETT COUNTY
DEPARTMENT OF FINANCIAL SERVICES
PURCHASING DIVISION

75 Langley Drive | Lawrenceville, GA 30046-6935
O: 770.822.8720 | F: 770.822.8735
GwinnettCounty.com

December 08, 2025

ADDENDUM #4
BL013-26
Purchase and Installation of Blowers at Shoal Creek Filter Plant

The following addition/changes modify the Bid No. BL013-26 "Purchase and Installation of Blowers at Shoal Creek Filter Plant" Contract Documents, dated November 2025, as first advertised on November 05, 2025.

I. Revisions:

R1. **Please replace Addendum #2, A1. with the following verbiage (will supersede previous answer):**
Prior to award, the contractor should deliver proof of licensure compliance to the Owner for any work to be performed under this contract which is governed by the State Licensing Board for Residential and General Contractors.

II. Questions:

Q1. **Is Gwinnett County looking to get increased performance from the blower? On page 71 of the original spec that there was a performance that would require a 250 HP motor.**

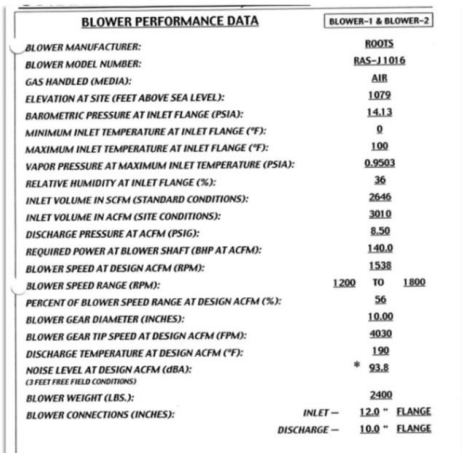
J. Specifications (May vary by manufacturer, Basis of Design is Roots 1016J):

1.	Frame Size:	1016J
2.	Speed:	1800 RPM
3.	Maximum Pressure:	13.3 psi
4.	BHP:	218
5.	CFM:	3529

K. Unit Dimensions:

1.	Height:	34.88"
2.	Length:	28.50"
3.	Inlet Flange:	12"
4.	Outlet Flange:	10"

This is different than the original performance:



BLOWER PERFORMANCE DATA	BLOWER-1 & BLOWER-2
BLOWER MANUFACTURER:	ROOTS
BLOWER MODEL NUMBER:	RAS-J 1016
GAS HANDLED (MEDIA):	AIR
ELEVATION AT SITE (FEET ABOVE SEA LEVEL):	1079
BAROMETRIC PRESSURE AT INLET FLANGE (PSIA):	14.13
MINIMUM INLET TEMPERATURE AT INLET FLANGE (°F):	0
MAXIMUM INLET TEMPERATURE AT INLET FLANGE (°F):	100
VAPOR PRESSURE AT MAXIMUM INLET TEMPERATURE (PSIA):	0.9503
RELATIVE HUMIDITY AT INLET FLANGE (%):	36
INLET VOLUME IN SCFM (STANDARD CONDITIONS):	2646
INLET VOLUME IN ACFM (SITE CONDITIONS):	3010
DISCHARGE PRESSURE AT ACFM (PSIG):	8.50
REQUIRED POWER AT BLOWER SHAFT (BHP AT ACFM):	140.0
BLOWER SPEED AT DESIGN ACFM (RPM):	1538
BLOWER SPEED RANGE (RPM):	1200 TO 1800
PERCENT OF BLOWER SPEED RANGE AT DESIGN ACFM (%):	56
BLOWER GEAR DIAMETER (INCHES):	10.00
BLOWER GEAR TIP SPEED AT DESIGN ACFM (FPM):	4030
DISCHARGE TEMPERATURE AT DESIGN ACFM (°F):	190
NOISE LEVEL AT DESIGN ACFM (dBA): (3 FEET FREE FIELD CONDITIONS)	* 93.8
BLOWER WEIGHT (LBS.):	2400
BLOWER CONNECTIONS (INCHES):	INLET – 12.0 " FLANGE
	DISCHARGE – 10.0 " FLANGE

If this new performance is required, who performed the blower selection? The 1016 RAS-J will NOT meet those conditions of 3529 ICFM at 13.3 and that any blower running at those conditions would need at least a 300 HP motor and not be able to be belt driven. None of this seems correct. Please advise.

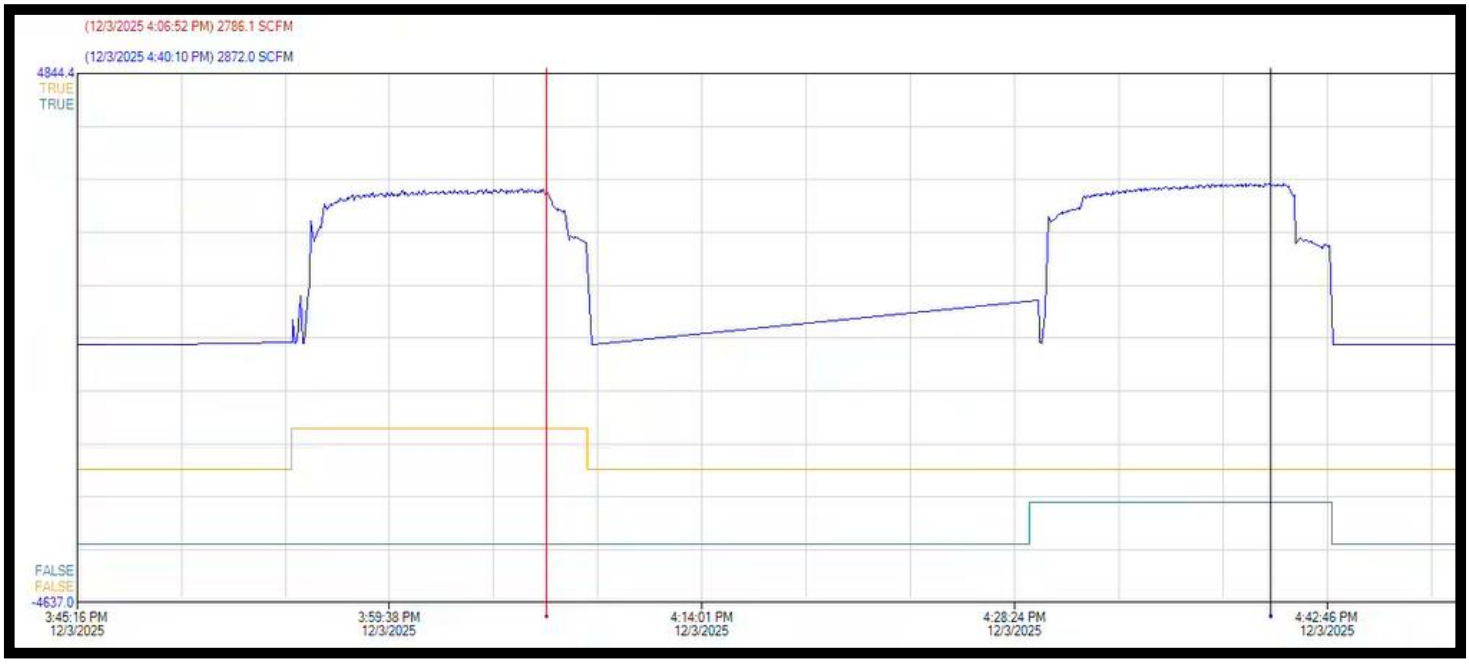
A1. Each of the Blowers, Motors and Sheaves to be selected for the site conditons are listed in 11276-B 1.0 "Site Conditons 3010 ACFM at 8.5 PSIG. Pressure Relief on the system is set at 9.5psi at the outlet silencers. Blower models listed may be capable of a higher flow/pressure when configured for it, but that is not being requested for this application.

The Current observed operating flow at the discharge header for the two existing blowers during a normal alternating operating cycle is as follows:

Blower 1: 2786 SCFM
Blower 2: 2872 SCFM

The flow meter is located in the Blower Room on the discharge manifold of the two blowers. The meters current accuracy has not been determined, but will be re-calibrated by Owner prior to start-up of the new blowers.

See Add4-A1-Graph-01 below. Blower selection should be for the Specified Design Condition of 3010ACFM at 8.5PSIG when measured at the discharge manifold headed in the blower room.



ADD4-A1-Graph-01 Observed Flow Rates for currently installed SCFP Air Scour Blowers 1 and 2.

This addendum should be signed in the space provided below and returned with your quote. Failure to do so may result in your quote being deemed non-responsive.

Thank you,
Brittany Bryant, CPPB
Purchasing Associate III

Company Name _____

Authorized Representative_____