# BULLITT COUNTY **PUBLIC SCHOOLS**

#### DANNY CLEMENS, DIRECTOR

TRACY PARSLEY, MAINTENANCE SUPERVISOR THOMAS STOKES, CUSTODIAL SUPERVISOR GEORGE BROCK, ENERGY MANAGER

## **DEPARTMENT OF FACILITIES**

**MEMO** 

TO:

Dr. Jesse Bacon, Superintendent

FROM:

Danny Clemens, Director of Facilities

Date:

January 18, 2024

RE:

Bernheim Renovation- Test and Balance Contractor DC

Attached are three proposals for Test and Balance Services for the Bernheim Middle School renovation. This scope of work includes testing and balancing the HVAC, geothermal and domestic water systems. This work is critical for the proper performance of these systems and will be paid out of construction contingency funds.

The following companies submitted a quote:

Thermal Balance: \$25,530 Kahoe Air Balance: \$47,540

Synergy Test and Balance: \$28,813

Scott Balch from CMTA recommends the use of Thermal Balance for the Bernheim Middle School project since they are the lowest bidder...

#### I recommend approval of this request.

#### Attachment:

Thermal Balance - Recommended - Bernheim TAB Proposal Kahoe - Bernheim TAB Proposal Synergy Test and Balance - Bernheim TAB Proposal

OUR MISSION IS TO INSPIRE AND EQUIP OUR STUDENTS TO SUCCEED IN LIFE BULLITT COUNTY PUBLIC SCHOOLS IS AN EQUAL EDUCATION AND EMPLOYMENT INSTITUTION



Date: May 31, 2023

AABC Certification #89-06-23
TBI Quote #Q138657

This quote is to perform the test and balance services per the *AABC Standards for Field Measurement* and *Instrumentation, Seventh Edition, 2016.* Any deviations or clarifications are listed below. This quote is valid for 30 days from the date of issuance and shall become an attachment to any contract provided. Unless noted below this price is based on an unoccupied facility and regular working hours. Fees for individually listed services are valid only on acceptance of the TAB contract.

Project:	BERNHEIM MI RENOVATION SHEPHERDS\	/IIIF KY	Total: Services:	\$25,530.00
	Balance iter Balance	Sound Testing  Vibration Testing	X Cx Team Member Pretesting	System Analysis  X Domestic Water

## **Excluded Services:**

- 1. Any sheaves, belts, balancing or control devices or installations thereof
- 2. Any lifts or scaffolding, as-builts, cleaning, lubing or uniform space temperature balancing
- 3. Any return trips for inoperable equipment, deficiencies, troubleshooting, report reviews, or final inspections
- 4. Any fees associated with subscriptions, memberships or 3rd party requirements

#### Remarks:

A LIFT IS INCLUDED FOR ALL HIGH WORK.

Prior to any scheduling, a purchase order must be sent to contracts@thermalbalance.com.









### KAHOE AIR BALANCE CO.

TEST AND AIR BALANCE ANALYSIS REPORTS



#### **PROPOSAL**

August 23, 2023

#### **CMTA**

Attention:

**Scott Balch** 

**Project:** 

**Bernheim Middle School Renovation** 

Shepherdsville, KY

**Bid Date:** 

August 24, 2023

We are pleased to offer our **PROPOSAL** for the above reference project. All work to be in accordance with the drawings and specifications dated **May 16, 2023** with noted exceptions in our proposal. All labor, insurance, workmen's compensation certificates and certified calibrated instruments are to be furnished by this company.

#### SCOPE OF WORK

- 1. Air and Water Balance.
- 2. No TAB Specifications received: Balancing per AABC Standards.

Includes:

Twelve (12) hours of participation in Commissioning of TAB work only.

For the Sum of: \$ 47,540.00

#### ADDITIONAL SERVICE(s)

NONE

#### ALTERNATE(s)

**NONE** 

#### **ADDENDUMS**

Kahoe has reviewed the following Addendums at bid time: None



#### KAHOE AIR BALANCE CO.

TEST AND AIR BALANCE ANALYSIS REPORTS



#### PLEASE NOTE

- The proposal is based on working Monday through Friday (7:00am to 4:00pm)
- The return system must be operational during the balancing of the supply system.
- DDC program and hardware must be made available for Kahoe Air Balance Co. use.
- **Kahoe** will provide the appropriate sizing for the required sheaves and belts necessary for proper balancing. (Purchasing and installing by other.)
- Kahoe will provide an Insurance Certificate for this project. (Purchasing the waiver of subrogation "Workers Comp. / Employers Liability" will be billed as a T & M with your approval)
- Balance damper must be provided for each diffuser, register and grille. Locate balancing damper as close to branch takeoff as possible.
- A lift must be provided for use by Kahoe when inaccessible with a 10-foot step ladder.

#### **NOT INCLUDED IN PROPOSAL**

- The addition of necessary dampers for correct air balance, or test cocks on the water system.
- Commissioning or participation in the Commissioning process.
- Schematic System Diagrams.
- Duct Pressure Testing.
- Sound and Vibration Measurements.
- Domestic Water Balancing.
- Heat Transfer Measurements.

#### **TERMS**

- For scheduling purposes, Kahoe Air Balance Co. will require 3 to 4 weeks advanced notice for mobilization.
- Invoices payable net 30 days.
- This proposal is firm for **60 days** from date of this proposal.
- Cancellation of this Confirmed Order is subjected to a 10% Service Charge.

Sincerely,

Edward A. Knapp

KAHOE AIR BALANCE COMPANY

Edward A. Knapp

A	CCEP	TANC	E OF	THIS	PROP	OSAL

Purchase Order #:				
Name:	Date:	/	/	
Title:	Amount:	\$		-
Signature:	Start Date:	/	/	



# Synergy Test and Balance

8355 Rockville Road Suite 36 | Indianapolis, IN 46234 | Tel. (317) 222-1828 154 Burt Road | Lexington, KY 40503

PROJECT:	Bullitt County Public Schools	DATE:	08/29/2023
	Bernheim Middle School Renovation	<u></u>	
	Shepherdsville, KY	<del></del>	
Drawings:	05/03/2023		
Addenda:	1, 2, & 3		
Specification:	203100		

The amount referenced below reflects our cost to perform Test and Balance (TAB) Services for equipment listed below.

 TAB Base Bid:
 \$28,813.00

 TOTAL:
 \$28,813.00

Duct Leakage Test Per Trip Cost: \$800.00

Please be advised of the following:

- Synergy Test and Balance performs work as an independent, third party owner advocate in accordance with AABC National Standards to accomplish the established scope of work.
- Each contractor must include time in their proposal to perform stipulated tests. The
  costs associated with other contractors' work are not included in the Synergy Test
  and Balance fee amount.
- 3) Contractors not adhering to the TAB schedule will assume responsibility for lost time of other participating contractors, consultants, and owner's personnel.
- 4) Retests required due to concealed conditions, design, or installation issues are not included in our base scope of work.
- 5) Lost time or issues related to the requirements noted above will be reported to the project manager in a timely manner following the occurrence.
- 6) Please note this price is based on an unoccupied facility unless indicated below.

Please note our standard hourly rates for services extended beyond the scope of this proposal can be provided upon request.

Thank you for the opportunity to provide a quotation on the above referenced project. Please call if there are any questions: (317) 222-1828 or FAX: (317) 451-8079

NOTE: This quote is firm for thirty (30) days.

SYNERGY TEST AND BALANCE, INC.

Cheryl L. Yates, President Cheryl@SynergyTAB.com

Luyl Yates



# Synergy Test and Balance

8355 Rockville Road Suite 36 | Indianapolis, IN 46234 | Tel. (317) 222-1828 154 Burt Road | Lexington, KY 40503

#### **THIS PROPOSAL IS ACCEPTED:**

BY:	
TITLE:	DATE:
PRINTED NAME:	
ORGANIZATION NAME:	



## Synergy Test and Balance

8355 Rockville Road Suite 36 | Indianapolis, IN 46234 | Tel. (317) 222-1828 154 Burt Road | Lexington, KY 40503

#### **Equipment List**

- DOAS w/ Energy Recovery Wheel
- Water Sourced Heat Pumps
- Geothermal Hydronic Pumps
- Kitchen EF
- Kitchen MAU
- Kitchen Hood
- EF's
- Toilet/Mech. EF's
- GRD's (High Work)
- Ex. GRD's
- GRD's
- Geothermal Wellfield Valve/Setters
- Participate in wellfield flush/purge, velocity and pressure drops
- DHW Balance Valve/Setters
- DHW Balance Recirc, Pumps

#### **Notes**

- +/- 10% Balance Tolerances per AABC Standards
- Cx Support / Final Inspection per 203100-2.24
- PDF Copy of TAB Report

#### **Exclusions**

- Pre-Demo Readings
- Existing equipment with no CFM/GPM shown
- Electric Heaters
- Ductless Split Systems
- Sound and Vibration tests
- Sheave and belt changes
- Installation of dampers or valves
- Termination of wiring
- Installation of filters
- Installation of test ports for hydronic balance
- Installation of any other accessories or components
- Fees associated with memberships, subscriptions, or 3<sup>rd</sup> party requirements
- Software or Hardware required to access BAS
- Hydrostatic testing
- Steam Balance
- Refrigerant measurements
- Overtime, Weekend, or Night work
- Lifts or scaffolds

<sup>\*</sup>Equipment not included in this list is specifically excluded from our quote