LOUISIANA TECH
UNIVERSITY

Division of Finance
Purchasing

ADDENDUM #2

October 26, 2026

RE: Bid Number 50012-667-27: Building Equipment Addition at the Institute for Micromanufacturing

The following information is provided to amend the original invitation to bid on October 2, 2026.

- **Please see the attached addendum complied by the designer, Aillet, Fenner, Jolly, & McClelland**

All other specifications remain unchanged.

Sincerely,

Clint Williams
Assistant Director of Purchasing
Louisiana Tech University
(318) 257-4205
clintw@latech.edu

AILLET, FENNER, JOLLY, & MCCLELLAND INC.

EST. 1960

CONSULTING ENGINEERS

ADDENDUM #2
BUILDING EQUIPMENT ADDITION
INSTITUTE FOR MICROMANUFACTURING
LOUISIANA TECH UNIVERSITY
AFJMc 25.164

October 26, 2026

STATE OF LOUISIANA
JOHN C. WILSON
REG. No. 19008
REGISTERED
PROFESSIONAL ENGINEER
IN
MECHANICAL ENGINEERING

10/26/26

THE FOLLOWING MODIFICATIONS AND/OR CLARIFICATIONS SHALL BE MADE TO THE DRAWING AND PROJECT MANUAL FOR THE CAPTIONED PROJECT:

GENERAL

1. The existing roof slope is approximately 1 in 12. Contractor shall verify on site prior to ordering roof curb.
2. The existing roof is a Johns Manville PVC SD Plus FB 60 membrane.

ELECTRICAL

DRAWINGS

1. Sheet 3:

   Detail A: Existing bus plugs are “GE Spectra Series”.

MECHANICAL

SPECIFICATIONS

1. Add specification section 23 3116 PVC Chemical Exhaust Ductwork included in this addendum to the bid specifications.

END ADDENDUM #2

SECTION 233116 - PVC CHEMICAL EXHAUST DUCTWORK

PART 1 - GENERAL

1.1 SUMMARY

Furnish and install PVC ductwork, fittings, supports, connections, and accessories for the ENIG process chemical exhaust system.

Provide a complete, airtight, corrosion-resistant exhaust duct system suitable for continuous negative-pressure operation.

1.2 REFERENCES

ASTM D1784 – Rigid PVC compounds.

ASTM D1785 – Schedule 40 PVC pipe (where used).

ASTM D2564 and ASTM D2855 – PVC solvent cement and joint procedures (where applicable).

Applicable adopted International Mechanical Code and International Fire Code.

NFPA 91 – Exhaust Systems for Air Conveying of Vapors, Gases, Mists, and Particulate Solids.

1.3 SUBMITTALS

Submit product data, fabrication drawings, wall thicknesses, reinforcement, support spacing, and joint details.

Submit documented compatibility with ENIG exhaust chemistry and expected temperature.

Provide manufacturer’s maximum allowable negative static pressure and operating temperature.

1.4 QUALITY ASSURANCE

Fabricate and install by personnel experienced in chemical exhaust systems.

Confirm exhaust classification and applicable fire-code approval before procuring combustible PVC ductwork.

PART 2 - PRODUCTS

2.1 PVC EXHAUST DUCTWORK

Rigid, unplasticized PVC, ASTM D1784 Type I Grade I, cell classification 12454, or approved equivalent.

Fabricated round PVC duct: minimum nominal 1/4-inch wall thickness, subject to manufacturer’s verification for duct diameter, maximum negative pressure, temperature, and support spacing.

Increase wall thickness or add external reinforcement as necessary to prevent buckling, ovalization, and excessive deflection.

Smooth internal surfaces; fittings to have equivalent corrosion resistance and adequate structural strength.

Schedule 40 PVC pipe conforming to ASTM D1785 may be used for smaller duct sizes when suitable for this service.

2.2 FITTINGS

Use long-radius elbows, minimum centerline radius 1.5 times duct diameter where practical.

Provide streamlined branches, smooth transitions, and inspection access where required.

2.3 JOINTS

Provide airtight, chemical-resistant joints.

Use approved solvent welding or thermoplastic welding as recommended for the selected fabricated duct system.

Where applicable, solvent cement shall comply with ASTM D2564 and assembly procedures with ASTM D2855.

Provide flanged joints where disassembly is required.

2.4 SUPPORTS

Provide corrosion-resistant supports with saddles or other bearing surfaces that avoid point loading.

Size and space supports for duct dimensions, temperature, and loads per manufacturer’s requirements.

Provide guides and anchors to accommodate thermal expansion.

2.5 FLEXIBLE CONNECTIONS

Provide chemical-resistant flexible connections where required for vibration isolation; prevent collapse under operating vacuum.

PART 3 - EXECUTION

3.1 INSTALLATION

Install per approved shop drawings and manufacturer instructions.

Provide smooth transitions, access for inspection, and protection from heat and mechanical damage.

Where liquid accumulation is possible, slope ductwork toward designated compatible drainage points.

Coordinate connections with ENIG equipment manufacturer.

3.2 FIELD QUALITY CONTROL

Inspect joints, alignment, supports, and expansion provisions.

Leak-test under specified operating conditions and correct defects.

Demonstrate no collapse or excessive deformation at maximum design negative pressure.

3.3 CLEANING AND STARTUP

Remove debris, clean interiors, and protect open duct ends during construction.

Coordinate startup and verify exhaust airflow and static pressure at all connections.

END OF SECTION 233116