Revision	Description
-	Release for Request for Proposal

ALBANY Engineered Composites
5995 W. Amelia Earhart Dr.
Salt Lake City, Utah 84116

Title:
STATEMENT OF WORK
FOR
NDT 10-Axis Foundation and Water System

Spec No.

Revision
-

Code Identification
32500

1 INTRODUCTION

1.1 Purpose

This statement of work describes the requirements to support a “Supplier Quote” for the foundation and water system for the Matec 10-Axis machine. The foundation will include a slab to cover the entire footprint of the machine, footings, electrical conduit, and a water system.

1.2 Bid Submittal

All proposals shall be submitted electronically and shall include commercial details for the proposed product, in addition to option prices. Include a complete response to this specification. All options shall be priced separately. If a requested option is included in the base price, so state. If a feature required as a base item is a standard option, so state, and identify that option as a required item; do not include it in the base price.

1.3 Proprietary Information Agreement

The Supplier and its subcontractors shall be required to enter into a Proprietary Information Agreement (PIA) with Albany Engineered Composites, protecting the exchange of information during the RFP process. Once the PIA is agreed to between Albany Engineered Composites and Supplier(s), information will be forwarded to the Supplier(s), assisting in bid development, machine configuration, and process development.

1.4 Contacts

Purchasing
Jeff Steinmann
Buyer
801-536-6235
jeff.steinmann@albint.com

Engineering
Mathew Leonard
Facilities Engineer
801-505-7009
Mathew.leonard@albint.com

Project Manager
Ryan Downer
NDT Level 3 Engineer
801-536-6208
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Safety
Scott Davis

Health, Safety, and Environment Manager
801-505-6941
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2 DEFINITIONS

- Buyer – Albany Engineered Composites (AEC).
- Seller, Supplier – Equipment Vendor.
- Shall, Must or Will – Indicate a mandatory requirement.
- Should or May – Indicate Buyer expectations. The Seller is not required to demonstrate these results.

3 APPLICABLE DOCUMENTS

3.1 Internal

- AEC Environmental Safety and Health Requirements
- AEC Risk Management Plan

4 BACKGROUND

4.1 NDT 10-Axis gantry of coordinated motion.

Albany Engineered Composites is soliciting proposals for a foundation that meets OEM specifications for an NDT system. Proposals should align with the preferred specifications listed in this document. Deviations or alternative approaches to achieving our requirements should be listed. AEC is open to discussion to achieve the best fit technology for our process.

5 FUNCTIONAL REQUIREMENTS

5.1 General

5.1.1 A barrier shall be installed during construction from floor to ceiling encircling the entire footprint. This barrier must block contaminates from escaping onto the production floor.

5.1.2 The current concrete over the entire footprint shall be cut, removed, and hauled away by the seller.

5.1.3 No overcut shall be present at any location.

5.2 Foundation

5.2.1 One solid slab 763” x 434” x 14” at thickest point.

5.2.2 The slab shall begin with a 10” thickness at the outer edge. It will taper to 14” at 4’ from outer edge. See Appendix A Figure 1 for drawing.

5.2.3 The slab shall be isolated from the surrounding flooring.

5.2.4 There shall be no expansion joints within the entire footprint.

5.2.5 There shall be a negative slope, 0.25” over 6’, towards the center of the footprint to allow for water to collect in the water system (east/west).

5.2.6 There shall be a negative slope matching the east/west slope over 6’ from the entrance and outlet.

5.2.7 The rebar grid shall be no closer than 8” from the lowest grade.

5.3 Electrical Conduit

5.3.1 Electrical conduit shall be embedded in the foundation with access points located as shown in the provided drawing.

5.3.2 The electrical conduit shall be a minimum of 8” below grade.

5.4 Water System

5.4.1 An I-Shaped water system shall be cut down the center of the footprint.

5.4.2 The arms of the water system shall not extend into the X-Axis track locations.

5.4.3 The top/bottom of the I-Shaped water system shall begin 6’ from the north/south edge of the slab.

5.4.4 The I-Shaped water system shall accommodate a grating provided by Albany engineering.

5.4.5 A recovery tank shall be cut into the floor above the north edge of the main slab.

5.4.6 The I-Shaped water system and the recovery tank shall hold a minimum total of 300 gallons.

5.4.7 A spill recovery tank shall be cut into the floor above the north edge of the main slab.

5.4.8 The spill recovery tank shall be ~84” x ~72” x ~6” deep.

5.4.9 The spill recovery tank shall have a grating secure enough to support the supply tank, pumping machinery, and a minimum of 500 gallons of water.

5.4.10 The spill recovery tank shall hold a minimum of 100 gallons.

5.4.11 Both the I-Shaped water system and the spill recovery tank shall have a sub-surface drainpipe that allows for the shortest fall of water into the recovery tank.

5.4.12 Use the same brand water pvc drainage system as current machine.

5.5 Floor Surface

5.5.1 The entire footprint shall be sealed to prevent seepage.

5.5.2 A non-slip surface shall be painted over the surface of the slab.

5.5.3 Dolphin gray epoxy (same as current machine) shall be used.

6 SAFETY & REGULATORY

6.1 Safety

6.1.1 All work will be carried out in accordance with AEC internal requirements including OSHA standards.

6.1.2 All employees are required to complete AEC contractor training prior to starting work.

6.1.3 An AEC representative will review and discuss a Daily Risk Assessment with all employees prior to work at the start of each shift.

6.1.4 All employees are required to understand and sign the Daily Risk Assessment prior to work at the start of each shift.

6.1.5 Any employee found violating any of these requirements will be asked to suspend work pending further disciplinary action.

6.2 Regulations

6.2.1 All employees are required to meet with an AEC representative prior to performing any work at the start of each shift.

6.2.2 All employees are required to be US citizens and must prove by means of (but not limited to) a birth certificate, a passport, or a military ID.

6.2.3 All employees are required to check in at the front desk of the AED building at the start of each shift.

6.2.4 All employees are required to check out at the front desk of the AED building at the end of each shift.

7 ENVIRONMENTAL REQUIREMENTS

7.1 Ambient Temperature

7.1.1 The foundation will be in an area that is standard shop environmentally controlled. It must be functional in an ambient temperature range of 60 to 80 degrees F.

7.2 Ambient Humidity

7.2.1 The foundation shall be functional in a range of 20-70% relative humidity.

7.3 Atmospheric Pressure

7.3.1 The foundation shall be functional at 4,300 feet above sea level.

8 FACILITY REQUIREMENTS

8.1 Utilities

Any special utilities requirements shall be stated in the proposal.

8.2 Other

Any other special facility requirements shall be stated in the proposal.

9 SCHEDULE

- Proposal is to be delivered within 1 week of receipt of the SOW.
- Construction must be able to start Nov. 1, 2021.
- Construction must be completed (including cure) by Dec. 31, 2021.

10 REVIEWS

10.1 Engineering Review

10.1.1 An engineering design review shall be preformed prior to beginning construction.

10.2 Informal Design Review

10.2.1 Informal reviews are a means of improving quality and reducing defects, but without the high overhead of Formal Design Reviews. The process is deliberately kept simple and the overhead low, to encourage frequent informal reviews.

10.2.2 Informal reviews can be requested as needed by the seller or the buyer.

11 ALBANY ENGINEERED COMPOSITES RESPONSIBILITES

Albany Engineered Composites' Project Engineer will work closely with supplier's Project Engineer during all phases of the project to ensure a successful execution. Certain tasks, by necessity, will be Albany Engineered Composites' responsibility, such as instances where information or approval is required, or where it would be impractical or impossible for the supplier to accomplish the activities. Specific requirements to be fulfilled by Albany Engineered Composites are as follows:

- Provide engineering assistance relative to production operations.
- Provide all necessary documentation, in the form of equipment and product drawings, specifications, production data, floor plans, etc., as requested.
- Provide exemption from the requirements or clarification of the requirements of this statement of work as needed.
- Provide site preparation assurance prior to construction.
- Provide power and air drops as specified by the seller.

12 INSTALLATION

The seller will send a team consisting of the appropriate management; engineering and technical personnel needed to execute a successful installation.

Seller's personnel will install the foundation, electrical conduit, and water system. Supplier to provide expected lead time starting from initial survey to completion of acceptance at Albany.

13 REQUEST FOR ENGINEERING

Please send all requests for additional information including engineering to our Purchasing contact listed in section 1.4.

Appendix A

Table 1 – Slab Approximate Dimensions

Notes:
1. All dimensions are in inches.
2. The pitch from the outer edges to the center of the foot print shall be 0.25" over 72".
3. Raised X-Track is for reference only.