Technical Specifications

Interested vendors must demonstrate the capability to meet or exceed the following specifications:

Requirement	Specification
Scale & Dimensions	Replica of F-35A Lightning II scaled down 1:10 at a minimum. Approximate dimensions: Wingspan: 3.5 ft; Length: 5.14 ft; Height: 2 ft (excluding pedestal).
Fidelity & Finish	Fully painted, detailed model outlining the cockpit, landing gear bays, and open weapon bays. High-accuracy appearance (exact replica scale fidelity not strictly required).
Materials & Durability	Fiber Reinforced Plastic (FRP) exterior shell with an internal steel frame. Designed to resist corrosion, extreme thermal cycles, and UV damage.
Coatings	High-quality, UV-resistant, fire-rated exterior paint (theme park grade) with a protective 2K clear coat. Internal steel components must be coated with catalyzed automotive epoxy; external pedestal pole must be powder-coated.
Mold Fabrication	The contract includes the fabrication of a reusable mold to allow future cost-effective model production. Ownership of the mold shall transition to VTANG upon contract completion.
Structural Integrity	Must withstand extreme Vermont winter environments (wind, ice, and snow loads). The structure must support its own weight and withstand environmental loads tested to 115% of regional extremes.
Mounting & Safety	Elevated on a robust ~7ft metal pedestal pole (with a 1ft bent attachment to the model's rear). Designed for bolt-on assembly/disassembly to the concrete pad and model. System must have no sharp edges or fall hazards, and requires certification by a licensed Professional Engineer (PE).

Installation & Logistics

- Locations: Two (2) unique installation sites located in Vermont.
- Contractor Responsibilities: Final assembly, transportation, hoisting/leveling, and robust mechanical anchoring of the pedestals to pre-installed concrete foundations. Compliance with base security access controls is required.