SALIENT CHARACTERISTICS

Mobile Gate Shacks for 374th Security Forces Squadron, Yokota Air Base, Japan
23 Jun 2026

1.0 PURPOSE
The ballistic steel booth on trailer shall provide a protected, climate-controlled, transportable workspace suitable for security, access control, customer service, or observation operations. The unit shall be factory-assembled, mounted on a heavy-duty trailer, and capable of rapid deployment in support of installation security requirements.

2.0 MINIMUM REQUIRED CHARACTERISTICS
(Vendors may propose equivalent or superior solutions that meet or exceed the functional requirements.)

2.1 Structural Requirements
- Exterior walls shall provide ballistic protection equivalent to UL 752 Level 3.
- Wall construction shall be a minimum of 3 inches thick using welded steel framing or equivalent structural design.
- All joints shall maintain ballistic integrity.
- Interior wall surfaces shall be durable, cleanable material (steel or equivalent).
- Roof and floor assemblies are not required to be ballistic rated.
- Requested Exterior Color: Tan (to match the facilities on base)

2.2 Doors and Windows
- One (1) ballistic swing door, approx. 36" × 84", Level 3 equivalent.
- Door shall include: ballistic window, continuous hinge (or equivalent), weather stripping, and lever hardware.
- One (1) fixed ballistic window, approx. 29" × 39" viewable area.
- One (1) ballistic sliding customer-service window suitable for ID checks and document exchange.
- Four (4) lockable ballistic gun ports.

2.3 Thermal Envelope & Insulation
- Wall insulation: R-18 minimum
- Ceiling insulation: R-19 minimum
- Floor insulation: R-16 minimum
- Equivalent thermal performance solutions are acceptable.

2.4 Interior Features
- Minimum interior ceiling height: 90 inches.
- Ceiling panels: steel or equivalent durable material.
- Countertop with cable pass-through.
- All interior/exterior surfaces shall have a corrosion-resistant finish.

2.5 Electrical System

2.5.1 Power Compatibility
The booth's electrical system shall be fully compatible with Japanese commercial power, including:
- 100V AC, 50/60 Hz input capability
- May be achieved through:
    - Integrated transformer
    - Power converter
    - Dual-voltage system
    - Or equivalent vendor-proposed solution

The Contractor shall provide all equipment necessary to ensure safe, reliable operation on Japanese commercial power without government-furnished equipment.

2.5.2 Distribution & Wiring

- All electrical components shall be UL/CSA listed or equivalent.
- Load center: Approx. 125A, 120/240V, 8-space or equivalent.
- Minimum components:
    - Two (2) 120VAC duplex receptacles
    - One (1) 240V receptacle
    - One (1) wall switch
    - Two (2) telecom/data junction boxes with conduit
    - Four (4) exterior LED floodlights with photocell
    - One (1) interior LED fixture

2.5.3 Generator Requirement

The Contractor shall provide a generator capable of powering the entire booth, including HVAC, lighting, receptacles, and auxiliary systems. The generator system shall meet the following:

A. Output Capacity

- Sized to support the full booth load; estimated 10–15 kW depending on final configuration.
- Vendors may propose alternate sizing with justification.

B. Japanese Power Compatibility

Because U.S.-sourced generators typically output 120/240V, 60 Hz, the Contractor shall ensure compatibility with Japanese standards by providing:

- A generator capable of supporting the booth's electrical load, AND
- A complete conversion solution enabling safe connection to 100V, 50/60 Hz Japanese commercial power.

This may include:

- Transformers
- Power converters
- Dual-voltage generator systems
- Automatic or manual transfer switches (ATS/MTS)
- Any additional hardware required for safe dual-source operation

The Contractor must deliver a complete, functional system that can operate on either generator power or Japanese commercial power without additional government-furnished equipment.

C. Additional Generator Requirements

- Enclosed/silenced unit if noise restrictions apply.
- Outdoor-rated, weatherproof enclosure.
- Trailer-mountable or skid-mounted configuration.
- Must meet U.S. export and Japanese import/regulatory requirements.

2.6 HVAC System

- One (1) through-the-wall or split-system HVAC unit.
- Cooling: Approx. 11,200 BTU
- Heating: Approx. 8,500 BTU (electric)
- Operates on 208/230V or via provided power conversion system.

2.7 Trailer Requirements

- Approx. trailer size: 82" × 16'
- GVWR: ~14,000 lbs.
- Two (2) axles, each ~7,000 lbs, with electric brakes or an equivalent braking system
- Brake chocks as a secondary method
- Heavy-duty frame (6" C-channel or equivalent)
- 2" adjustable coupler with 7-way plug
- Four (4) stabilizing jacks (~7,000 lb rating each)
- Pressure-treated wood deck or equivalent
- Removable porch rails and fold-up step
- Includes safety chains and breakaway system

2.8 Trailer Electrical Requirements

- Fully wired, DOT-approved lighting system.
- LED tail, brake, turn, marker, and clearance lights.
- Standard 7-way RV plug compatible with U.S. towing vehicles.
- Sealed, weather-resistant wiring harness.
- Trailer electrical system shall operate independently from booth electrical system.

2.9 Deployment & Handling

- Booth delivered fully assembled on trailer.
- Lifting lugs for crane off-loading.
- Vendor responsible for oversize load compliance and transport permits.

2.10 Documentation & Warranty

Vendor shall provide:

- Approval drawings
- Installation drawings
- Operation and maintenance manuals
- Minimum 1-year warranty on materials and workmanship