

**DEPARTMENT OF THE ARMY AND THE AIR FORCE**  
**JOINT FORCE HEADQUARTERS-ARIZONA**  
5636 EAST MCDOWELL  
PHOENIX, ARIZONA, 85008-3495

**SCOPE OF WORK**

State of Arizona  
Department of Emergency and Military Affairs  
Facilities Management Office

**PROJECT**

PPMR F-16 Static Display

**LOCATION**

Papago Park Military Reservation  
5636 E. McDowell Road  
Phoenix, Arizona 85008-3495

**DATE**

December 20, 2019

**FMO FILE NUMBER**

PN # 100% State Funded

Installation No. 04686

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**PROJECT DIRECTORY**

**Owner:** Arizona Department of Emergency and Military Affairs  
5636 E. McDowell Road  
Phoenix, Arizona 85008-3495

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# SPECIFICATIONS

## PART 1

### GENERAL DESCRIPTION OF WORK

1. Background
  - 1.1. The F-16 Static display will be located at 5636 E McDowell Rd in Phoenix, Arizona. The proposed project includes a structural steel column and mounting plates including associated footings and site work for mounting an F-16 airplane for the purposes of display.
  - 1.2. Project includes site work, construction, and mounting according to the construction documents.
  - 1.3. Owner will provide the F-16. Contractor will install and secure the plane to the structural steel column via mounting brackets in accordance with (IAW) the 100% construction documents.
  - 1.4. All site work indicated in the plans including replacement of a culvert shall be completed.
2. Summary of Work
  - 2.1. Papago Park requires a safe and complete F-16 Static display IAW the stamped engineered documents (document, M19-0079 F-16 Display\_100% CD\_Combined) .
  - 2.2. Base Bid: Contractor shall provide a complete, firm, fixed price to provide all necessary services, labor, materials, and equipment to complete the Papago Park Military Reservation F-16 Static display, IAW the stamped engineering drawings dated, October 21, 2019.
  - 2.3. Owner does not guarantee that existing conditions are the same as those indicated in project record documents. Contractor will include and coordinate Blue Stake or other locating services prior to any earthwork or removal of any surfaces regarding this project. Placement of the utility services in the sub grade or trenches requires indicator tape and or tracing wire. Contractor shall note all findings and placements of equipment and components on CADD/As-built drawings.
3. Scheduling
  - 3.1. A preconstruction meeting shall be coordinated between the Owner (DEMA) and the Contractor at the time of the Award of Contract. Hours of work duration shall be determined at that time.
  - 3.2. Contractor shall perform work to accommodate Owner's occupancy requirements during the construction period; coordinate construction schedule and operations with Owner and other Contractors on the site.

- 3.3. Contractor shall prepare and submit for the Owner's information, an estimated progress schedule and dust control plan due to amount of site work, existing surface conditions, work progression, occupancy of adjacent buildings, POV and other equipment in the project area.
- 3.4. The progress schedule shall be related to the entire project to the extent required by the Contract Documents.
- 3.5. The progress schedule shall be delivered to the Owner not later than seven (7) days prior to start of construction.
4. Inspection
  - 4.1. All work will be inspected by Point of Contact (POC) and/or Owner's construction inspector during progress and upon completion of work. Contact POC before back filling trenches and prior to placement of landscaping, rip-rap or concrete to verify base/sub-base compaction code and testing requirements.
  - 4.2. Special Structural Inspections shall be performed in accordance with the stamped engineered drawings.
  - 4.3. The POC shall be given seven (7) days' notice before work begins and ends.
  - 4.4. Final payment shall not be approved until the POC/PM certifies that work was accomplished in accordance with this Scope of Work and a complete set of as-builts of all new construction and existing utilities discovered, in AutoCAD version 10 format, on CD, are provided to POC.
5. Applicable Codes
  - 5.1. The Contractor shall obtain and comply with all required regional and state regulations. Local permits are not required due to being on Arizona Army National Guard property; however, compliance with all applicable local building codes is mandatory.
  - 5.2. In accordance with Arizona Revised Statutes 34-461 as amended, this Project shall be constructed in compliance with applicable building, plumbing, mechanical, electrical, and fire prevention codes adopted the city, town, county, or fire district in which the project is located. Codes and design criteria necessary for the design of this project shall consist of, but not limited to, the latest published editions of the following:
    - 5.2.1. International Building Code 2012
    - 5.2.2. Uniform Plumbing Code 2012
    - 5.2.3. International Mechanical Code 2012
    - 5.2.4. International Fire Code 2012
    - 5.2.5. National Electric Code 2011
    - 5.2.6. OSHA Safety and Health Standards
    - 5.2.7. National Guard Bureau guidelines

### 5.2.8. Current Federal ADA Regulations

#### 6. Project Specifications

- 6.1. The information in this scope of work and location sketches are provided solely to assist the contractor in assessing the nature and extent of the conditions that may be encountered during the course of work. A pre-bid meeting will be held in which the contractor is advised to conduct whatever investigations he may deem necessary to arrive at his own conclusions regarding the actual conditions that will be encountered, and upon which his bid will be based. No additional pre-bid meetings will be held.
- 6.2. It is the responsibility of the contractor to notify the Owner (FMO) at least 48 hours in advance of inspections and tests required to demonstrate as-built conditions.
- 6.3. The contractor's construction superintendent shall be on-site at all times construction activities are proceeding.
- 6.4. The contractor is expected to stake the work prior to construction and immediately advise the POC of any conflicts encountered.
- 6.5. It is the contractor's sole responsibility to verify the presence and location of any and all existing overhead and/or underground utilities that may interfere with this construction. Contractor shall adequately protect and maintain such utilities.
- 6.6. If any existing utilities not explicitly called out for demolition and/or removal are damaged during construction, the contractor shall be responsible for repairing or replacing at his own expense the affected utilities at the discretion of the Owner or utility provider in question.
- 6.7. Unless otherwise noted in this Scope of Work, the contractor will replace all existing paving, curb and gutters, signs, general landscaping, storm-water controls, or other improvements with the same type of material and configuration that was removed or damaged during construction or according to the approved plan.
- 6.8. The contractor is responsible for contacting Blue-Stake and any non-participating utility companies to verify utility locations prior to excavation.
- 6.9. The contractor is responsible for obtaining all necessary permits and scheduling all required inspections.
- 6.10. All signs, barrels, drums, lights, barricades, and other items necessary for traffic and pedestrian control shall be provided by the contractor and maintained in good working condition at all times.
- 6.11. Open trenches in or away from work area, day or night, shall be cautioned taped off for safety. The use of traffic rated cover plates over trenches for pedestrian and vehicles are also a requirement. The contractor shall maintain a clean and secure staging area at all times during the project.
- 6.12. Site access shall be coordinated directly with the Arizona Army National Guard and the POC.

- 6.13. All site work will be performed on a business week (Monday through Friday) between 6:00am and 6:00 pm unless otherwise approved by the Owner.
7. Health and Safety
- 7.1. It is the responsibility of the contractor to become familiar with the OSHA Safety Standards and abide by them at all times during construction.
- 7.2. Contractor is solely responsible for the safe and healthful performance of work by each of their employees, subcontractors, or support personnel who may enter the site. Contractor is responsible for providing adequate security for its personnel, subcontractors, and all related equipment and project material. Temporary sanitary facilities shall be maintained on the site from beginning to completion of construction.
8. Environmental Awareness
- 8.1. The Contractor shall diligently attempt to use products that are environmentally “friendly”.
- 8.2. If the Contractor is unable to provide environmentally “friendly” products, he shall submit to the Owner at the start of work, a list of those products considered “unfriendly” along with their Safety Data Sheets (SDS’s).
- 8.3. Characteristics of environmentally “unfriendly” products consist of, but are not necessarily limited to, the following:
- 8.3.1. Ignitability – flashpoint of less than 140 degrees F (60 degrees C).
- 8.3.2. Corrosivity – pH less than or equal to 2, or greater than or equal to 12.5.
- 8.3.3. Reactivity – reacts violently with water or generates toxic gases, vapors, or fumes when mixed with water.
- 8.3.4. Toxicity – any product that may create waste in quantities exceeding those in Table 1 of 40 CFR 261.24.
- 8.3.5. Toxic Release Inventory (TRI) – any product that appears on the list prepared by the EPA.
9. Materials and Equipment
- 9.1. Materials or equipment shall be delivered to the project in the manufacturer’s original sealed, labeled containers, and shall be adequately protected against moisture, dust, tampering or damage from improper handling or storage.
- 9.2. Materials shall not be delivered to the site before they are needed.
- 9.3. Where materials or other products are specified by manufacturer or by brand name, such reference is to establish a standard of desired quality.
- 9.4. Substitutions:
- 9.4.1. Refer to Request for Quote/Instructions to Bidders for information regarding the approval of substitutions of materials or equipment prior to bidding.

9.4.2. Prior Approval: In accordance with Paragraph 4, Article 9, Supplementary Instructions of the Instructions to Bidders, prior approval submissions must be made on the following materials, products or equipment to be used in this project: (see section 5.1).

9.4.3. After award of Contract, the Owner will consider a formal request for the substitution of products in place of those specified when either the specified material is not available or a superior product has become available. The Owner will furnish the format for the request for substitution to the Vendor.

9.5. All manufacturers' warranties service instructions and illustrated parts breakdowns will be furnished to the Owner prior to final acceptance.

## 10. Warranty/Guarantee

10.1. The Vendor shall, and hereby does; warrant and guarantee that all materials and equipment provided for this project will be free from defects of materials and workmanship for a period of one (1) Year from the Date of Owner Acceptance of the Equipment.

10.2. Vendor agrees that he will, at his own expense, repair and/or replace all such defective equipment/materials which are found to be defective during the term of the warranty/guarantee.

10.3. Should the Vendor fail to repair and/or replace such defective materials and/or equipment within a period agreed upon between the Owner and the Vendor, the Owner may perform, or have performed, the necessary work, and the Vendor hereby agrees to reimburse the Owner for actual expenses.

10.4. The Warranty/Guarantee period on any part of the equipment so repaired and/or replaced shall be extended beyond normal warranty/guarantee period for a period of six months from the date of such repair and/or replacement.

10.5. The Warranty/Guarantee will not apply to normal wear and tear or damage by acts beyond the Vendor's control.

10.6. Vendor shall secure required Warranty/Guarantee in a comparable form as the contained in these documents, addressed to and in favor of the Owner.

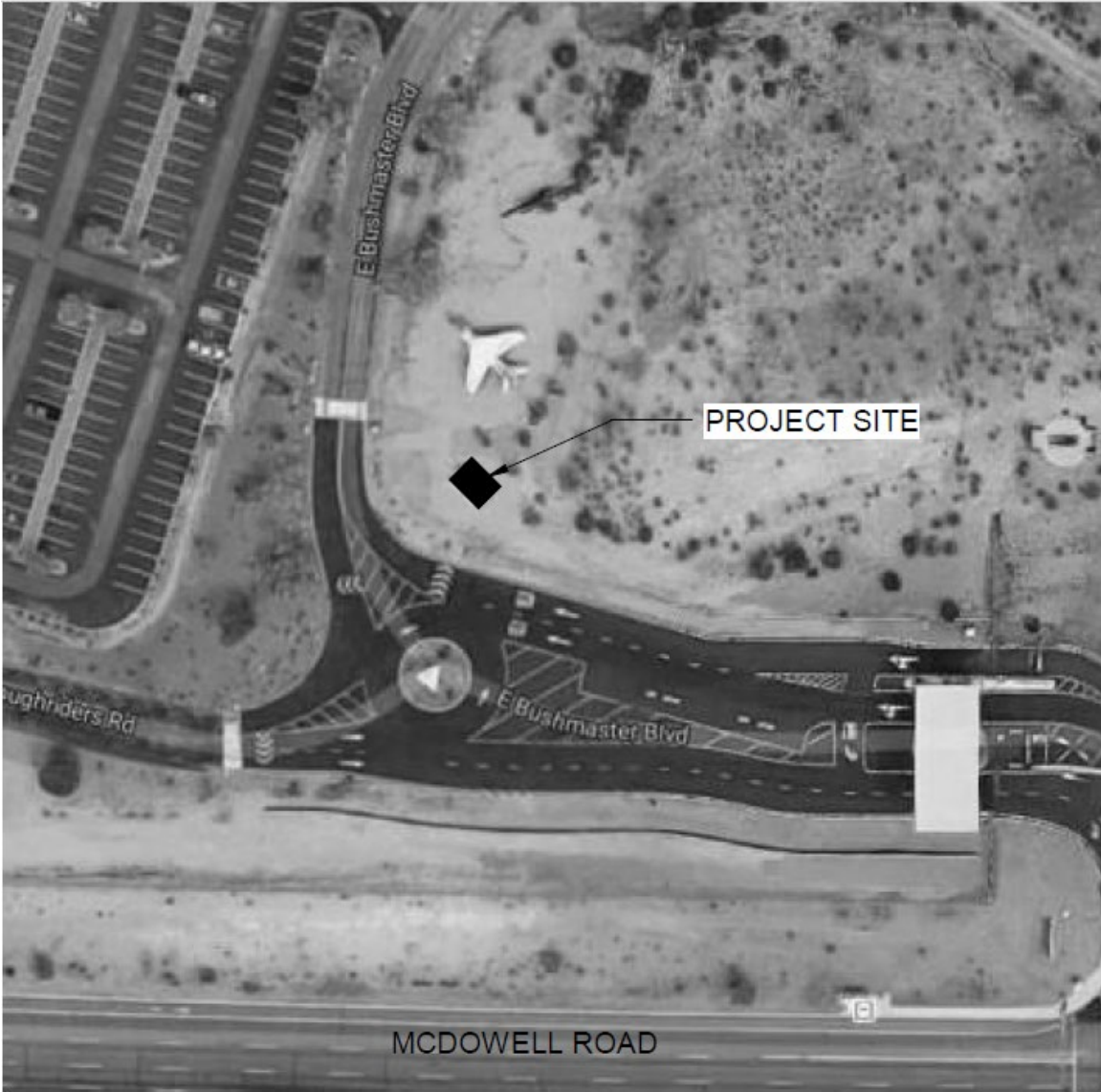
10.7. Delivery of Warranty/Guarantee will not relieve the Vendor from any obligation assumed under other provisions of the Contract.

10.8. Warranty shall include any incidental damage caused to the aircraft and/or surrounding landscape, buildings, persons, vehicles which may be damaged due to defective equipment/materials which are found to be defective during the term of the warranty/guarantee.



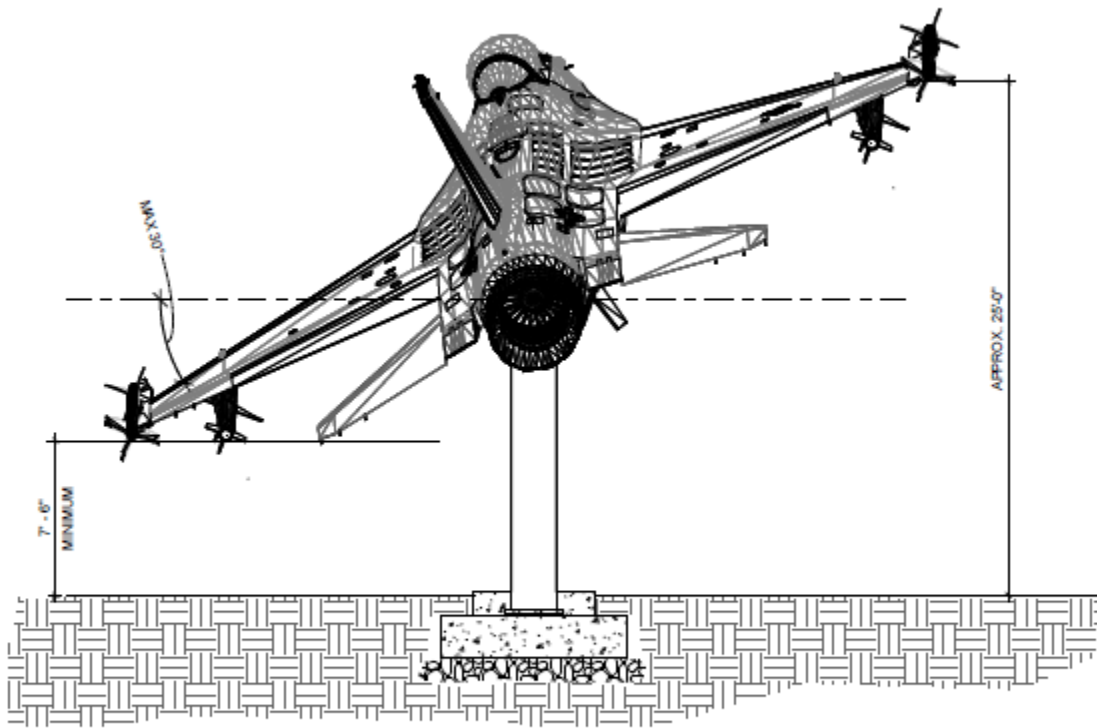
**Projected Project Site Map**

Exhibit #1



# Project Diagram #1

## Exhibit #2



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### ELEVATION SOUTHEAST

3/16" = 1'-0"

END OF SCOPE