APPENDIX B

FOR

BIN SHELVING

AT

GRISSOM ARB, INDIANA

BUILDING 613

CSN: VGR601

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PREPARED BY:

James Rowland
JAMES ROWLAND
PROJECT ENGINEER
AFLCMC/EZPAE

Ashley Ambrose
ASHLEY AMBROSE
REVIEWER
AFLCMC/EZPAE

1. GENERAL SCOPE

This appendix establishes the minimum performance, design, fabrication, installation, and test requirements for bin shelving at Grissom ARB, Building 613. The work shall be completed in accordance with this appendix, the Cover Purchase Description (PD), and Air Force (AF) Drawing VGR601-01. This appendix covers all equipment, materials, and labor necessary to complete installation of the system.

2. APPLICABLE DOCUMENTS

Applicable documents shall be in accordance with Section 2 of the Cover PD.

3. REQUIREMENTS

3.1. SYSTEM DESCRIPTION

The bin shelving shall be used to store hand-liftable items.

3.2. CHARACTERISTICS

Bin shelving shall conform to the following requirements.

3.2.1. CONFIGURATION REQUIREMENTS

Bin shelving shall be located and configured as shown on AF Drawing VGR601-01.

3.2.2. STRUCTURE AND INSTALLATION

- **SHELF DETAILS**
  - Shelf size shall be as shown on AF Drawing VGR601-01
  - Capacity as shown on AF Drawing VGR601-01
  - Shelf edges shall be flanged down on all sides with at least one additional return flange
  - Shelf shall have adjustable shelf clips to secure all four corners
  - Not exhibit permanent deformation and elastic deformation shall not exceed .875 percent of the unsupported span. The following formula shall be used to determine the deflection amount:

    *Deflection = [(M1 - M2) / shelf beam length] * 100*

- **SUPPORTING POSTS**
  - Posts shall be as shown on AF Drawing VGR601-01
  - Shall have capacity sufficient to support shelfs as shown on AF Drawing VGR601-01
  - Shall be adjustable by 1 or 1-1/2 inch increments
  - Shall be beaded, box, or angle upright type as defined by the Shelving Manufacturers Association

- **PANELS**
  - Back panels shall be on all shelving units
  - Side panels shall be on all shelving units

- **BASE STRIP**
  - Shall be installed between bottom shelf and floor on all units

- **FOOT PLATES**
  - Each supporting post shall have a foot plate and be secured to floor or mobile aisle specified in Appendix C with anchor bolts
  - Foot plates shall be secured behind base strips

- **FREESTANDING STRUCTURE**
  - Shall be a rigid freestanding structure
  - Shall be installed per manufacturers instructions

- **ASSEMBLY**
  - Shall be assembled using all required components as per manufacturers instructions
  - Shelving shall be secured to the supporting posts by means of positive engaging clips

- **ALIGNMENT**
  - Shall maintain shape and positions under full load
  - Aisle alignment shall be maintained from unit to unit by 1/8 inch
  - Vertical alignment shall be within 1/4 inch
  - All leveling shims shall be secured under foot plates

- **ROW MARKERS**
  - Two card holders installed on the end of each rack section for row identification.
  - Card holders capable of holding and shielding 8.5 inch by 11 inch printed labels from debris.
  - Securely mounted between 7 feet and 10 feet from the floor.

- **COLOR**
  - Shall be as specified by COTR

4. QUALITY ASSURANCE PROVISIONS

4.1. INSPECTION

The bin shelving shall be inspected to verify that it meets all the requirements of sections 1, 2, and 3 of this appendix and the Cover PD. These inspections shall be completed as part of the system checkout test and again as a part of the quality conformance test.

4.2. TESTS

The following test shall be performed on the system as part of the system checkout test and again as a part of the quality conformance test.

No.	Description	Result
1.	Maximum loads shall be placed randomly in the shelf system. After not less than four hours, the test loads shall be removed and the shelving examined for signs of deformation. If any component of the system exhibits plastic or elastic deformation outside of the approved parameters, the system fails the test.	☐ Pass ☐ Fail

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