SECTION 111415

TURNSTILES

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**NOTE TO SPECIFIER**

*Use this Specification Section for Mail Processing Facilities.*

***This is a Type 2 Specification with primarily editable text; therefore, most of the text can be edited, but there is some required text which is noted within the Section with a “Note to Specifier.” Do not revise these paragraphs without an approved Deviation from USPS Headquarters, Facilities Program Management, through the USPS Project Manager.***

*For Design/Build projects, do not delete the Notes to Specifier in this Section so that they may be available to Design/Build entity when preparing the Construction Documents.*

*For the Design/Build entity, this specification is intended as a guide for the Architect/Engineer preparing the Construction Documents.*

*The MPF specifications may also be used for Design/Bid/Build projects. In either case, it is the responsibility of the design professional to edit the Specifications Sections as appropriate for the project.*

*Text shown in brackets must be modified as needed for project specific requirements.* *See the “Using the USPS Guide Specifications” document in Folder C for more information.*

*The last date that USPS revised this standard specification section occurs in two places, at the end of this section and in the Table of Contents. If the date in this section matches the date in the Table of Contents, then you are using the latest version. Do not delete or revise the “last revised” date at the end of the section during the development of the Project Manual.*

*The footer in this section should be edited to replace the text, “USPS MPF SPECIFICATION” with the project name, and the blank date in the center should be replaced with the submission date, for interim design reviews, or the issue date of the completed Project Manual.*

***Tandem turnstiles may be used in R&A projects only where the available space is insufficient to accommodate the required number of regular (single unit) turnstiles.***

***When used as a means of egress component, determine capacity in accordance with the appropriate Means of Egress sections in NFPA101 and the IBC.***

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PART 1 – GENERAL

1.1 SUMMARY

A. Full Height Security Turnstiles and matching ABA (Architectural Barriers Act) swing gate.

1.2 RELATED DOCUMENTS

A. Section 281303 – Enterprise Physical Access Control System.

1.3 SUBMITTALS

A. Product Data: Required.

B. Shop Drawings: Required.

C. Samples: Required.

1.4 QUALITY ASSURANCE

A. Regulatory Requirements: Comply with USPS Handbook RE-5.

B. ANSI NFPA 101 Life Safety and IBC Codes.

C. ABA (Architectural Barriers Act)

D. Turnstiles and swing gate shall be from the same manufacturer.

1.5 TESTING

A. All control sequences shall be field tested with successful operation prior to acceptance.

PART 2 – PRODUCTS

2.1 TURNSTILE MANUFACTURERS

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***NOTE TO SPECIFIER***

***REQUIRED****: Do not revise the manufacturers or products below without an approved Deviation from USPS Headquarters, Facilities Program Management, through the USPS Project Manager.*

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A. Turnstile and ABA swing gate models as manufactured by:

1. Boon Edam Inc., McKinney Parkway, Lillington, NC (910)814-3800, Turnlock100-USPS-ES2-28.
2. Alvarado Manufacturing CO, Chino, CA (800)423-4143, Model no. MST-6X.
3. Hayward Turnstiles, Inc., Milford, CT (203)864-3780, Model no. HT 431.

2.2 CONTROLS FOR TURNSTILES AND ABA SWING GATES

A. See Section 281304 – Enterprise Physical Access Control System

1. Provide all necessary controls components to fully interface with the Access Control System for control of turnstiles and ABA swing gate as described in the Section.

B. Provide all additional necessary controls components that the Enterprise Physical Access Control System does not address, but that is required by the NFPA Life Safety Code and the IBC Means of Egress requirements for turnstiles and ABA swing gates.

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***NOTE TO SPECIFIER***

***REQUIRED****: Do not revise the turnstile and gate function below without an approved Deviation from USPS Headquarters, Facilities Program Management, through the USPS Project Manager.*

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C. Turnstile and ABA swing gate shall be “fail safe” in the egress direction only (inbound direction must remain secure), that is, automatically switch to free-egress or free spin mode under the following conditions:

1. Loss of power to turnstile or gate.
2. Loss of power to control system.
3. Upon activation of manual release device.
4. Upon activation of fire alarm system.
5. Upon activation of fire or smoke detection system.
6. Upon activation of building automatic sprinkler system.
7. Upon activation of emergency evacuation device push button.

2.3 TURNSTILE REQUIREMENTS

A. Material and finishes:

1. Exterior covered locations: galvanized in conformance with ASTM A123.
2. Exterior exposed locations: #304 stainless steel frame, 316 Stainless steel arms.
3. Interior locations: black powder coat paint.

B. Passage dimensions: 27 inches wide minimum, by 84 inches high.

C. Type; Single or Tandem if allowed.

D. Arm and barrier tubing sizes: 1-1/2 inch diameter, 14 gauge.

E. Overall dimensions: [single 57 inches deep x 62 inches wide x 91 inches high] [Tandem 57 inches deep x 94 inches wide x 91 inches high].

F. Required features for each turnstile:

1. Indicator Lights, Red and Green per set, per controlled direction.
2. Card access mounting plate, per reader.
3. Card reader pedestal, per reader.
4. Key override.
5. Heel protectors.

2.4 ABA SWING GATE

A. Material and finishes; #304 stainless steel.

B. Size of pedestrian clearance: 36 inches, minimum.

C. Frame and jamb: 2 x 2 inches, 11-gauge box tubing.

D. Interior tubing sizes; 1-1/2 inch diameter, 14 gauge.

E. Exterior height: 91 inches.

F. Interior height: 88-1/2 inches.

G. Keylock Control direction: Control Direction of travel manually by key to lock or unlock, or to override electronic controls.

H. Provide outdoor rated electronic strike lock, automatic door closer, and panic device.

I. Provide heavy gauge tight weave stainless steel mesh infill for full height of swing gate.

J. Card access mounting plate, per reader.

PART 3 – EXECUTION

3.1 Install all products in accordance with manufacturer’s guidelines and printed instructions.

END OF SECTION

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