SECTION 262773

CALL BELL SYSTEMS

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**NOTE TO SPECIFIER**

*Use this Specification Section for Mail Processing Facilities.*

***This is a Type 1 Specification with completely editable text; therefore, any portion of the text can be modified by the A/E preparing the Solicitation Package to suit the project.***

*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.*

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1. GENERAL
   1. SUMMARY
      1. Section Includes:
         1. Call Bell system components.
            1. Chimes.
            2. Bells.
            3. Buzzer.
            4. Pushbuttons.
            5. Low voltage transformers.
            6. Low voltage cable.
            7. Door contact.
      2. Related Documents: The Contract Documents, as defined in Section 011000 - Summary of Work, apply to the Work of this Section. Additional requirements and information necessary to complete the Work of this Section may be found in other Documents.
      3. Related Sections:
         1. Section 260500 - Common Work Results for Electrical.
   2. REFERENCES
      1. As specified in Section 260500 – Common Work Results for Electrical.
   3. SUBMITTALS
      1. As specified in Section 260500 – Common Work Results for Electrical.
      2. Section 017704 - Closeout Procedures and Training: Procedures for closeout submittals.
         1. Project Record Documents: Accurately record the following:
            1. Location of devices and components.
            2. Actual routing and sizes of conduit, boxes and conductors.
   4. QUALITY ASSURANCE
      1. As specified in Section 260500 – Common Work Results for Electrical.
      2. Qualifications:
         1. Manufacturer: Company specializing in manufacturing Products specified with minimum 5 years documented experience.
         2. Installer: Company specializing in performing the Work of this Section with minimum 5 years documented experience.
      3. Regulatory Requirements:
         1. Conform to requirements of NFPA 70.
         2. Products: Listed and classified by Underwriter's Laboratories Incorporated as suitable for the purpose specified and indicated.
2. PRODUCTS

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**NOTE TO SPECIFIER**

Verify manufacturer information, Product numbers, and availability at time of preparation for Project.

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* 1. MANUFACTURERS
     1. Subject to compliance with Project requirements, manufacturers offering Products which may be incorporated in the Work include the following:
        1. Broan – Nutone, LLC. Hartford WI (800) 336-3948
        2. ABB (Carlon/T & B products), Memphis, TX
        3. Craftmade, Dallas, TX (800) 486-4892
        4. Edwards Signaling and Security Systems, Farmington, CT (800) 336-4206
        5. Federal Signal Corp., University Park, IL (800) 548-7229
        6. Interlogix, Costa Mesa, CA (855) 286-8889
        7. Southwire Corporate Office, Carrollton, GA (770) 832-4529
        8. Substitutions permitted per Section 016000: U.S. Manufacturers subject to prior approval:.

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**NOTE TO SPECIFIER**

The types of chimes, bells, buzzers and pushbuttons are dependent on the specific application. When multiple audible devices are required in the same area of the building, each device must produce a sound that is audibly different from the others. Edit paragraph 2.2 below to suite the specific Project requirements.

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* 1. PRODUCTS
     1. Chimes:
        1. Commerical, two entrance chimes with two notes (65 dB at 10 feet) and white plastic housing rated 10 VA at 16 VAC.
           1. Basis of Design: Broan/Nutone #LA100WH.
           2. Alternate Manufacturs:

Craftmade #CTPW at 16 VAC.

Edwards Signaling and Security Systems #C212-W at 16 VAC.

Substitutions permitted as listed in Paragraph 2.1A.

* + - 1. Commercial, heavy duty, single stroke chime (81 dB at 10 feet) adjustable up to 10 pulses/second with satin aluminum finish rated 12 VA at 24 VAC.
         1. Basis of Design: Edwards Signaling and Security Systems #338-G5.
         2. Substitutions permitted as listed in Paragraph 2.1A.
    1. Bells:
       1. Commercial, 6 inch diameter, vibrating bell with long continuous ringing sound (92 dB at 10 feet), die cast housing and rated 8 VA at 16 VAC.
          1. Basis of Design: Edwards Signaling and Security Systems #340-6FM.
          2. Substitutions permitted as listed in Paragraph 2.1A.
       2. General purpose, 6 inch diameter, vibrating bell with continuous ringing sound (80 dB at 10 feet), corrosion resistant housing and rated 10 VA at 8 VAC.
          1. Basis of Design: Edwards Signaling and Security Systems #156G-6AM.
          2. Substitutions permitted as listed in Paragraph 2.1A.
       3. Heavy duty, 6 inch diameter, single stroke bell with clearly defined single audible note (86 dB at 10 feet) die -cast housing and rated 12 VA at 24 VAC.
          1. Basis of Design: Edwards Signaling and Security Systems #332-6G5.
          2. Substitutions permitted as listed in Paragraph 2.1A.
    2. Buzzer:
       1. Heavy duty, 5 inch diameter, vibrating buzzer with continuous buzzing sound (70 dB at 10 feet) corrosion resistant housing and rated 6 VA at 24 VAC.
          1. Basis of Design: Edwards Signaling and Security Systems #340A-G5.
          2. Substitutions permitted as listed in Paragraph 2.1A.
    3. Doorbell Pushbutton:
       1. Flush mounted, indoor/outdoor, non-illuminated, multi-voltage (12 VAC/24 VAC) pushbutton and plate with satin chrome finish and normally open momentary contacts.
          1. Basis of Design: Edwards Signaling and Security Systems #631.
          2. Substitutions permitted as listed in Paragraph 2.1A.
       2. Surface mounted, indoor, non-illuminated, multi-voltage (12 VAC/24 VAC) pushbutton with white plastic housing and normally open momentary contacts.
          1. Basis of Design: Edwards Signaling and Security Systems #631.
          2. Substitutions permitted as listed in Paragraph 2.1A.
    4. Low Voltage Transformer:
       1. High power, Class 2, signaling transformer with 120 VAC primary coil, screw terminals, thermal overload protection and mounting plate.
          1. Basis of Design: Edwards Signaling and Security Systems #598/593 (rated 20 VA at 8 VAC and 30 VA at 16 VAC/24 VAC).
          2. Substitutions permitted as listed in Paragraph 2.1A.
    5. Door Contact:
       1. Surface mounted, normally open door contact with captured screw terminals, ¾ inch gap, snap on covers, mounting hardware and rated at 7.5 Watts at 100 VAC.
          1. Basis of Design: Interlogix #1285T.
          2. Substitutions permitted as listed in Paragraph 2.1A.
    6. Low Voltage Cable:
       1. Stranded copper. All cabling shall be contained within conduit.
       2. Cable shall be class 3, type CL3R, unshielded, (2) conductor, 18 AWG, stranded copper wire (minimum).
          1. Basis of Design: Southwire #R400-18-1.
          2. Substitutions permitted as listed in Paragraph 2.1A.

1. EXECUTION
   1. EXAMINATION
      1. As specified in Section 260500 - Common Work Results for Electrical.
   2. INSTALLATION
      1. Install call bell system(s) as shown on the Drawings; make all necessary wiring connections to devices and equipment.
      2. Install system transformer at outlet box locate above within accessible ceiling.
      3. Install low voltage wiring in conduit.
      4. Flush mount wall outlets for buzzers at 6 inches below ceiling unless otherwise noted on Drawings.
   3. FIELD QUALITY CONTROL
      1. As specified in Section 260500 – Common Work Results for Electrical.
      2. Perform operational testing on call bell system(s) to verify proper operation and field wiring connections.

END OF SECTION

USPS MPF Specification Last Revised: 10/1/2022