SECTION 321723

PAVEMENT MARKINGS

*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\**

***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.*

*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\**

1. GENERAL
	1. SUMMARY
		1. Section Includes:
			1. Painted pavement markings.
			2. Painted curbs.
		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 321216 ‑ Asphalt Paving: Asphalt paving substrate for marking application.
			2. Section 321313 ‑ Concrete Paving: Concrete paving substrate for marking application.
			3. Section 099100 – Painting: Painting exterior bollards.
	2. SUBMITTALS
		1. Section 013300 - Submittal Procedures: Procedures for submittals.
			1. Product Data: Technical data sheets indicating manufacturer's catalog number, paint type description, and VOC content for each paint type specified.
			2. Assurance/Control Submittals:
				1. Certificates: Manufacturer certificate that Products meet or exceed specified requirements.
				2. Test Reports: Manufacturer Material Safety Data Sheets (MSDS) for each paint type specified.
	3. QUALITY ASSURANCE
		1. Regulatory Requirements: Provide paint materials that conform to Federal, State, and local restrictions for Volatile Organic Compounds (VOC) and lead-free content.
	4. DELIVERY, STORAGE AND HANDLING
		1. Section 016000 - Product Requirements: Transport, handle, store, and protect products.
		2. Deliver paint materials in sealed original labeled containers, bearing manufacturer's name, type of paint, brand name, lot number, brand code, coverage, surface preparation, drying time, cleanup requirements, color designation, and instructions for mixing and/or reducing.
		3. Store paint materials at minimum ambient temperature of 45 degrees F and a maximum of 90 degrees F, in ventilated area, and as required by manufacturer's published instructions.
	5. PROJECT CONDITIONS OR SITE CONDITIONS
		1. Maintain access for vehicular and pedestrian traffic as required for other construction activities. Utilize flagmen, barricades, warning signs and warning lights as required.
	6. MAINTENANCE
		1. Section 017704 – Closeout Procedures and Training: Requirements for Closeout Submittals.
			1. Extra Materials:
				1. Provide 1 gallon of each color to Contracting Officer.
				2. Label each container with color and type, in addition to manufacturer's label.
2. PRODUCTS
	1. MANUFACTURERS
		1. Subject to compliance with project requirements, manufacturers offering specified Products which may be incorporated into the Work include the following:
			1. Sherwin-Williams Company, Cleveland, OH (800) 321-8194.
			2. Benjamin Moore and Company, Montvale, NJ (201) 573-9600.
			3. Pittsburgh Paints (PPG), Pittsburgh, PA (800) 441-9695.
		2. Section 016000 - Product Requirements: Product options and substitutions. Substitutions: Permitted.
	2. MATERIALS
		1. Ready‑mixed; pigments fully ground maintaining a soft paste consistency, capable of readily and uniformly dispersing to a complete homogeneous mixture providing good flowing and brushing properties capable of drying or curing free of streaks or sags. Dry to traffic and touch in 2 hours.
		2. Traffic Paint: Flat, Water Base, Acrylic, complying with Federal Specifications TT-P 1952D
			1. 1st Coat:
				1. Sherwin-Williams: Pro-Park Waterborne Traffic Marking Paint, B97 Series MDF 9 mils.
				2. Benjamin Moore: SuperSpec HP Safety & Zone Marking Paint P58, MDF 9 mils
				3. PPG Zoneline Traffic & Marking Paint, 11-50 Series, MDF 9 mils.
			2. 2nd Coat:
				1. Sherwin-Williams: Pro-Park Waterborne Traffic Marking Paint, B97 Series MDF 9 mils.
				2. Benjamin Moore: SuperSpec HP Safety & Zone Marking Paint P58, MDF 9 mils
				3. PPG Zoneline Traffic & Marking Paint, 11-50 Series, MDF 9 mils.
3. EXECUTION
	1. EXAMINATION
		1. Section 017300 - Execution: Verification of existing conditions before starting work.
		2. Verification of Conditions: Verify that field measurements, surfaces, substrates and conditions are as required, and ready to receive Work.
		3. Report in writing to Contracting Officer prevailing conditions that will adversely affect satisfactory execution of the Work of this Section. Do not proceed with Work until unsatisfactory conditions have been corrected.
		4. By beginning Work, Contractor accepts conditions and assumes responsibility for correcting unsuitable conditions encountered at no additional cost to the United States Postal Service.
	2. PREPARATION
		1. Sweep pavement and surfaces to receive paint markings clean of dust and dirt. Allow pavement to cure a minimum of 60 days prior to application of paint markings.
		2. Clean surfaces free of glaze and grease, road film, and other foreign materials.

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

**NOTE TO SPECIFIER**

Use Paragraph below where removal of existing markings is a part of the Work.

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

* + 1. Where existing pavement markings are indicated on Drawings to be removed or would interfere with the adhesion of new paint, use a motorized abrasive device to remove existing markings.
			1. Use equipment that will not damage existing paving or create surface hazardous to vehicle or pedestrian traffic.
			2. Use marking removal methods approved by governing authority having jurisdiction in areas within public rights-of-way.
	1. APPLICATION
		1. Apply paint products in accordance with manufacturer's published instructions using application procedures approved for the particular application and substrate to the specified Minimum Dry Film Thickness (MDF). Apply each coat to uniform finish.
		2. Do not apply paint markings on surfaces that are not dry and if rain is expected within 24 hours.
		3. Do not apply paint markings when surface or air temperature is below 50 degrees F.
		4. Apply 2 coats at manufacturer recommended rate without addition of thinner. Apply with mechanical equipment to produce uniform straight edges. At sidewalk curbs and crosswalks, use straightedge to provide uniform, clean, and straight stripe.

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

**NOTE TO SPECIFIER**

Edit marking colors to coordinate with colors indicated on Drawings and per local code requirements.

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

* 1. PAINT MARKING SCHEDULE
		1. Paint the following items with colors indicated below:
			1. Pedestrian Crosswalks: [White] [Yellow].

2. Fire Lanes: Red or per local code.

3. Lane Striping Where Separating Traffic in Opposite Directions: Yellow.

4. Lane Striping Where Separating Traffic in Same Direction: White.

5. Handicap Symbols: Per local code.

6. Parking Stall Striping: [White] [Yellow].

END OF SECTION

USPS MPF Specification Last Revised: 10/1/2022