874S.1 Description

This item shall govern the elimination of existing pavement markings of various types and sizes, and pavement markers as shown on the Drawings or as directed, in writing, by the Engineer or designated representative.

874S.2 Materials

All surface treatment material application rates shall be as directed by the Engineer or designated representative. Unless otherwise shown on the Drawings, surface treatment materials shall conform to the requirements of Specification Item 301S, “Asphalts, Oils and Emulsions”, and Specification Item 302S, “Aggregates for Surface Treatment”. Testing of surface treatment materials may be waived by the Engineer or designated representative. Asphalt and aggregate types and grades shall be as shown on the Drawings or as approved by the Engineer or designated representative.

874S.3 Construction Methods

Elimination of existing pavement markings and markers shall be accomplished by one or more of the following methods as approved by the Engineer or designated representative.

A. Markings on Asphaltic Surfaces.
   1. Placement of a surface treatment a minimum of two (2) feet \(600 \text{ mm}\) wide to cover the existing marking.
   2. Placement of a surface treatment, thin overlay or microsurfacing a minimum of one (1) lane in width in areas where directional changes of traffic are involved or other areas as directed by the Engineer or designated representative. Construction methods for surface treatments shall conform to Specification Item 320S, “Two Course Surface Treatment”.

B. Markings on Concrete Surfaces.
   Removal by an approved burning method.

C. Markings on Asphalitic or Concrete Surfaces.
   Removal by water, water-sand blasting techniques or any other method(s) proven satisfactory to the Engineer.

D. Markers on Asphalitic or Concrete Surfaces.
   Removal by any mechanical method to remove marker and adhesive.
Existing pavement markings and markers on both concrete and asphaltic surfaces shall be removed in such a manner that color and/or texture contrast of the pavement surface will be held to a minimum.

Removal of pavement markings on concrete surfaces by blast cleaning shall be accomplished in accordance with Specification Item 875S, “Pavement Surface Preparation for Markings”, except for measurement and payment. Blast cleaning shall be performed in such a manner that damage to the Portland cement concrete surface is held to a minimum.

When thermoplastic pavement markings or prefabricated pavement markings are encountered, the application of heat may be used to remove the bulk of the marking material prior to blast cleaning. When heat is used, care shall be taken to prevent spalling of Portland cement concrete surfaces.

A burner may be used for complete removal of pavement markings. Broom removal or light blast cleaning may be used for removal of minor residue.

Damage to asphaltic surfaces, such as spalling, shelling, etc., that is greater than ¼ inch (6 mm) in depth and is caused by the removal of pavement markers shall be repaired by the application of a two (2) foot (600 mm) wide surface treatment for longitudinal markers with no directional change or a minimum of one (1) lane width surface treatment in areas where directional changes of traffic are involved.

Grinding is not an acceptable method of marker or marking removal. However, equipment utilizing special milling flails is considered acceptable in the removal of markings and markers on asphalt and Portland cement concrete surfaces.

874S.4 Measurement
This Specification Item will be measured by the square yard (square meter: 1 square meter is equal to 1.196 square yards) of surface treatment, thin overlay or microsurfacing (full lane width) placed; by each word, symbol or shape eliminated; by the lineal foot (lineal meter: 1 lineal meter is equal to 3.281 lineal feet) of markings eliminated; or by any other unit as shown on the Drawings.

Payment for revised quantities will be paid for at the unit price bid for that bid item.

The elimination of pavement markers required in conjunction with the elimination of longitudinal markings will not be measured for payment.

874S.5 Payment
The work performed and materials furnished in accordance with this Specification Item and measured as provided under “Measurement” will be paid for at the unit bid price for “Eliminating Existing Pavement Markings and Markers” of the various types specified. This price shall include full compensation for blast cleaning, mechanical cleaning and/or other cleaning methods; for all materials, tools, equipment and incidentals necessary to complete the Work, except as specified below.
Elimination of pavement markers when pavement markers are to be removed in conjunction with the elimination of longitudinal markings shall be included in the unit price bid for the item of construction indicated on the drawings.

Payment will be made under one or more of the following:

**Pay Item 874S-A:** Eliminating Existing Pavement Markings:
___inches in width,  per lineal foot

**Pay Item 874S-B:** Eliminating Existing Work Zone Pavement Markings:
___inches in width,  per lineal foot

**Pay Item 874S-C:** Eliminating Existing ReflectORIZED Thermoplastic Pavement Markings:
**Words** ___inches in width  per each

**Pay Item 874S-D:** Eliminating Existing ReflectORIZED Thermoplastic Pavement Markings:
**Shapes** ___inches in width  per each

**Pay Item 874S-E:** Eliminating Existing ReflectORIZED Thermoplastic Pavement Markings:
**Symbols** ___inches in width  per each

**Pay Item 874S-F:** Eliminating Existing Raised Pavement Markings,
____ Type’ .  per each

END

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**SPECIFIC CROSS REFERENCE MATERIALS**

| Specification Item No. 874S, “Eliminating Existing Pavement Markings And Markers” |
|---|---|

City of Austin Contract Documents
Designation | Description
---|---
Section 00300U | Bid Form (Unit Prices)

City of Austin Standard Specifications
Designation | Description
---|---
Item No. 301S | Asphalts, Oils and Emulsions
Item No. 302S | Aggregates for Surface Treatments
Item No. 320S | Two Course Surface Treatment
Item No. 875S | Pavement Surface Preparation For Markings

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**RELATED CROSS REFERENCE MATERIALS**

| Specification Item No. 874S, “Eliminating Existing Pavement Markings And Markers” |
|---|---|

City of Austin Standard Specifications
Designation | Description
---|---
Item No. 310S | Emulsified Asphalt Treatment
Item No. 311S | Emulsified Asphalt Repaving
Item No. 312S | Seal Coat
Item No. 313S | Cleaning and/or Sealing Joints and Cracks (Asphaltic Concrete)
Item No. 315S | Milling Asphaltic Concrete Paving
Item No. 340S | Hot Mix Asphaltic Concrete Pavement
Item No. 341S | Paving Fabric
Item No. 350S | Heating, Scarifying and Repaving
Item No. 360 | Concrete Pavement
Item No. 413S  Cleaning and/or Sealing Joints and Cracks (Portland Cement Concrete)
Item No. 801S  Construction Detours
Item No. 803S  Barricades, Signs and Traffic Handling
Item No. 860S  Pavement Marking Paint (Reflectorized)
Item No. 863S  Reflectorized Pavement Markers
Item No. 864S  Abbreviated Pavement Markings
Item No. 865S  Non-Reflectorized Traffic Buttons
Item No. 866S  Jiggle Bar Tile
Item No. 867S  Epoxy Adhesive
Item No. 870S  Work Zone Pavement Markings
Item No. 871S  Reflectorized Pavement Markers
Item No. 872S  Prefabricated Pavement Markings
Item No. 873S  Raised Pavement Markings

City of Austin Standard Details
Designation               Description
863S-1                    Pavement Buttons (Reflectorized-Type I & Type II)
865S-1                    Traffic Buttons (Non-Reflectorized)

Texas Department of Transportation: Standard Specifications for Construction and Maintenance of Highways, Streets, and Bridges
Designation               Description
Item No. 302              Aggregates for Surface Treatments
Item No. 314              Emulsified Asphalt Treatment
Item No. 315              Emulsified Asphalt Seal
Item No. 316              Surface Treatments
Item No. 334              Hot Mix-Cold Laid Asphaltic Concrete Pavement
Item No. 340              Hot Mix Asphaltic Concrete Pavement
Item No. 342              Plant Mix Seal
Item No. 351              Repairing Existing Flexible Pavement Structure
Item No. 354              Planing and/or Texturing Pavement
Item No. 358              Asphaltic Concrete Surface Rehabilitation
Item No. 360              Concrete Pavement
Item No. 421              Hydraulic Cement Concrete
Item No. 427              Surface Finishes for Concrete
Item No. 428              Concrete Surface Treatment
Item No. 662              Work Zone Pavement Markings
Item No. 666              Reflectorized Pavement Markings
Item No. 667              Prefabricated Pavement Markings
Item No. 672              Raised Pavement Markers
Item No. 677              Eliminating Existing Pavement Markings and Markers
Item No. 678              Pavement Surface Preparation For Markings

RELATED CROSS REFERENCE MATERIALS - Continued
Texas Department of Transportation: Manual of Testing Procedures
Designation               Description
Tex 729-I                    Sampling of Traffic Markers
Tex-828-B                   Determining Functional Characteristics of Pavement Markings
Tex-829-B                   Method For Measuring Pavement Temperature
Tex-854-B                   Evaluation Of Thermoplastic Striping For Uniformity And Thickness

Texas Department of Transportation: Departmental Materials Specification
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