



Florida Department of Transportation

RICK SCOTT
GOVERNOR

605 Suwannee Street
Tallahassee, FL 32399-0450

JIM BOXOLD
SECRETARY

March 3, 2015

Khoa Nguyen
Director, Office of Technical Services
Federal Highway Administration
545 John Knox Road, Suite 200
Tallahassee, Florida 32303

Re: State Specifications and Estimates Office
Section **710**
Proposed Specification: **7100000 Painted Pavement Markings.**

Dear Mr. Nguyen:

We are submitting, for your approval, two copies of the above referenced Supplemental Specification.

The changes are proposed by Paul Gentry of the Department's Product Evaluation Office to incorporate language from Developmental Specification 710 to the Standard Specifications. The required 18 month weathering test has been successfully completed. Formatting changes were also made for consistency with current Department practice. Additional changes were proposed by Chester Henson of the State Roadway Design Office and Stefanie Maxwell of the State Construction Office to modify the Specification language for consistency with revisions to the Design Standards implemented with Roadway Design Bulletin 15-02, released on January 22, 2015.

Please review and transmit your comments, if any, within two weeks. Comments should be sent via email to SP965DS or daniel.scheer@dot.state.fl.us.

If you have any questions relating to this specification change, please call me at 414-4130.

Sincerely,

Signature on file

Daniel Scheer, P.E.
State Specifications Engineer

DS/dt
Attachment



Florida Department of Transportation

RICK SCOTT
GOVERNOR

605 Suwannee Street
Tallahassee, FL 32399-0450

JIM BOXOLD
SECRETARY

cc: Florida Transportation Builders' Assoc.
State Construction Engineer

PAINTED PAVEMENT MARKINGS.

(REV ~~12-17-14/8282-24-15~~) ~~(FA 1-29-15) (7-15)~~

SECTION 710 is deleted and the following substituted:

SECTION 710 PAINTED PAVEMENT MARKINGS

710-1 Description.

Apply ~~P~~ainted ~~Traffic Stripes and~~ pavement ~~M~~arkings, in accordance with the Contract Documents.

710-2 Materials.

Use only materials listed on the Department's Approved Product List (APL) meeting the following requirements:

- Raised Retroreflective Pavement Markers and Bituminous AdhesiveSection 970
- Standard ~~Waterborne Fast Dry Traffic~~ Paint971-1 and 971-3
- ~~Durable Waterborne TrafficFast Dry Solvent~~ Paint971-1 and 971-4
- Glass Spheres 971-1 and 971-2

The Engineer will take random samples of all material in accordance with the Department's Sampling, Testing and Reporting Guide schedule.

710-3 Equipment.

Use equipment that will produce continuous uniform dimensions of pavement markings of varying widths and meet the following requirements:

- ~~(a)~~1. Capable of traveling at a uniform, predetermined rate of speed, both uphill and downhill, in order to produce a uniform application of paint and capable of following straight lines and making normal curves in a true arc.
- ~~(b)~~2. Capable of applying glass spheres to the surface of the completed ~~stripeline~~ by an automatic sphere dispenser attached to the ~~striping-pavement marking~~ machine such that the glass spheres are dispensed closely behind the installed line. Use a glass spheres dispenser equipped with an automatic cut-off control that is synchronized with the cut-off of the ~~traffic~~ paint and applies the glass spheres in a manner such that the spheres appear uniform on the entire pavement markings surface ~~with, 50 to 60% embedment.~~
- ~~(c)~~3. Capable of spraying the paint to the required thickness and width without thinning of the paint. Equip the paint tank with nozzles equipped with cut-off valves, which will apply broken or skip lines automatically.

710-4 Application:

710-4.1 General: Remove existing pavement markings, such that scars or traces of removed markings will not conflict with new pavement markings, by a method approved by the Engineer. ~~Payment for marking removal will be in accordance with 102-5.8.~~

Before applying ~~traffic stripes and~~ painted pavement markings, remove any material ~~by a method approved by the Engineer~~ that would adversely affect the bond of the ~~traffic stripes~~ pavement markings *by a method approved by the Engineer.*

Apply ~~standard waterborne traffic stripes and markings~~ paint only to dry surfaces only, and when the ambient air and surface temperature is at least 40°F and rising.

Apply durable waterborne traffic stripes and markings paint only to dry surfaces only. Do not apply durable waterborne traffic paint when the ambient air and surface temperature is below 50°F, relative humidity is above 80% or when the dew point is within 50°F of the ambient air temperature.

Do not apply ~~traffic stripes and~~ painted pavement markings when winds are sufficient to cause spray dust.

Apply ~~traffic stripes and~~ painted pavement markings, having well defined edges, over existing pavement markings such that not more than 2 inches on either end and not more than 1 inch on either side is visible. When stencils are used to apply symbols and messages, the areas covered by the stencil reinforcing will not be required to be painted.

Mix the paint thoroughly prior to pouring into the painting machine. Apply paint to the pavement by spray or other means approved by the Engineer.

Conduct field testing in accordance with FM 5-541. Remove and replace ~~traffic stripes and~~ painted pavement markings not meeting the requirements of this Section at no additional cost to the Department.

Apply all pavement markings prior to opening the road to traffic.

710-4.1.1 Final Surface: *When permanent pavement markings are included in the Plans, such as (thermoplastic, tape, etc.), are placed on newly constructed asphalt, the painted pavement markings (final surface) will include one application of standard painted pavement markings and one application of retroreflective pavement markers applied to the final newly constructed surface prior to the final permanent markings.; otherwise, If no permanent pavement markings, such as thermoplastic, tape etc., are included in the contract Plans, the painted pavement markings (final surface) will include two applications of standard painted pavement markings and one application of retroreflective pavement markers applied to the final surface. Wait at least 14 days after the first application to apply the second application of painted pavement markings (final surface). Second application must be applied prior to final acceptance of the project.*

Apply all retroreflective pavement markers per the requirements of Section 706.

710-4.2 Thickness: Apply ~~standard waterborne~~ paint to attain a minimum wet film thickness in accordance with the manufacturer's recommendations. ~~For Apply durable waterborne paint, apply paint to attain a minimum 25-wet mil film thickness of 0.025 inches or 25 mils. Measure, record, and certify on a Department approved form, and submit to the Engineer, the wet film thickness using a wet film thickness gauge on panels. For longitudinal testing, use FM 5-541, section 4.1.2. For transverse testing locations, use of white and yellow durable paint pavement markings in accordance with FM 5-541, section 4.1.4.~~

710-4.3 Retroreflectivity: Apply white and yellow standard ~~waterborne pavement markings~~ paint that will attain an initial retroreflectance of not less than 300 mcd/lx·m² and not less than 250 mcd/lx·m², respectively. *Apply white and yellow durable paint that will attain an initial retroreflectance of not less than 450 mcd/lx·m² and not less than 300 mcd/lx·m², respectively.*

Measure, record and certify on a Department approved form and submit to the Engineer, the retroreflectivity of white and yellow pavement markings in accordance with FM 5-541.

~~Apply white and yellow durable waterborne pavement markings that will attain an initial retroreflectance of not less than 450 mcd/lx m² and not less than 300 mcd/lx m²; respectively. Measure, record and certify on a Department approved form and submit to the Engineer, the retroreflectivity of white and yellow pavement markings in accordance with FM 5-541.~~

The Department reserves the right to test the markings within ~~3~~*three* days of receipt of the Contractor's certification. Failure to afford the Department opportunity to test the markings will result in non-payment. The test readings should be representative of the Contractor's ~~striping pavement marking~~ performance. If the retroreflectivity values measure below values shown above, reapply the ~~striping pavement marking~~ at no additional cost to the Department.

For standard ~~waterborne pavement markings~~*paint*, ensure that the minimum retroreflectance of white and yellow pavement markings are not less than 150 mcd/lx m². If the retroreflectivity values *for standard paint* fall below the 150 mcd/lx m² value within ~~six months~~*180 days* of initial application, the ~~striping pavement marking~~ will be reapplied at the Contractor's expense.

~~For durable waterborne pavement markings, ensure that the minimum retroreflectance of white and yellow pavement markings are not less than 150 mcd/lx m². If the retroreflectivity values for durable paint fall below the initial values of 450 mcd/lx m² value for white and 300 mcd/lx m² for yellow within 18 six months 180 days of initial application, the striping pavement marking will be reapplied at the Contractor's expense.~~

710-4.4 Color: Use paint material that meets the requirements of 971-1.

710-4.5 Glass Spheres: Apply glass spheres on all pavement markings immediately and uniformly following the paint application. The rate of application shall be based on the manufacturer's recommendation.

For longitudinal durable paint markings, apply a double drop of Type 1 and Type 3 glass spheres. For transverse durable paint markings, apply a single drop of Type 3 glass spheres.

The rate of application shall be based on the manufacturer's recommendation.

710-5 Tolerances in Dimensions and in Alignment.

Establish tack points at appropriate intervals for use in aligning ~~stripes~~*pavement markings*, and set a stringline from such points to achieve accuracy.

710-5.1 Dimensions:

710-5.1.1 Longitudinal Lines: Apply painted skip line segments with no more than plus or minus 12 inches variance, so that over-tolerance and under-tolerance lengths between skip line and the gap will approximately balance. Apply longitudinal lines at least 2 inches from construction joints of portland cement concrete pavement.

710-5.1.2 Transverse Markings, Gore Markings, Arrows, and Messages: Apply paint in multiple passes when the marking cannot be completed in one pass, with an overall line width allowable tolerance of plus or minus 1 inch.

710-5.1.3 Contrast Lines: Use black paint to provide contrast on concrete or light asphalt pavement, when specified by the Engineer. Apply black paint in 10 foot segments following each longitudinal skip line.

710-5.2 Alignment: Apply painted ~~stripes~~*pavement markings* that will not deviate more than 1 inch from the stringline on tangents and curves one degree or less. Apply painted ~~stripes~~*pavement markings* that will not deviate more than 2 inches from the stringline on curves

greater than one degree. Apply painted edge ~~stripes~~*markings* uniformly, not less than 2 inches or more than 4 inches from the edge of pavement, without noticeable breaks or deviations in alignment or width.

Remove and replace at no additional cost to the Department, ~~traffic~~*stripes*~~pavement markings~~ that deviate more than the above stated requirements.

710-5.3 Correction Rates: Make corrections of variations in width at a maximum rate of 10 feet for each 0.5 inches of correction. Make corrections of variations in alignment at a maximum rate of 25 feet for each 1 inch of correction, to return to the stringline.

710-6 Contractor's Responsibility for Notification.

Notify the Engineer prior to the placement of the materials. Furnish the Engineer with the manufacturer's name and batch numbers of the materials and glass spheres to be used. Ensure that the approved batch numbers appear on the materials and glass spheres packages.

710-7 Protection of Newly ~~Painted~~*Applied* Pavement Markings.

Do not allow traffic onto or permit vehicles to cross newly applied pavement markings until they are sufficiently dry. Remove and replace any portion of the pavement markings damaged by passing traffic or from any other cause, at no additional cost to the Department.

710-8 Corrections for Deficiencies to Applied Painted Pavement Markings.

Reapply a 1.0 mile section, centered around any deficiency, at no additional cost to the Department.

710-9 Submittals.

710-9.1 Submittal Instructions: Prepare a certification of quantities, using the Department's current approved form, for each project in the Contract. Submit the certification of quantities and daily worksheets to the Engineer. The Department will not pay for any disputed items until the Engineer approves the certification of quantities.

710-9.2 Contractor's Certification of Quantities: Request payment by submitting a certification of quantities no later than Twelve O'clock noon Monday after the estimate cut-off date or as directed by the Engineer, based on the amount of work done or completed. Ensure the certification of quantities consists of the following:

~~(a)~~*1.* Contract Number, FPID Number, Certification Number, Certification Date and the period that the certification represents.

~~(b)~~*2.* The basis for arriving at the amount of the progress certification, less payments previously made and less any amount previously retained or withheld. The basis will include a detailed breakdown provided on the certification of items of payment.

710-10 Method of Measurement.

The quantities, *authorized and acceptably applied*, ~~to be paid for~~ under this Section will be *paid* as follows:

~~(a)~~*1.* The length, in ~~net-gross~~ miles, of ~~6-inch solid-traffic stripe, authorized and acceptably applied, 10'-30' skip, 3'-9' dotted, 6'-10' dotted, and 2'-4' dotted lines.~~

~~(b)~~*2.* ~~The total traversed distance in gross miles of 10-30 or 3-9 skip line. The actual applied line is 25% of the traverse distance for a 1:3 ratio. This equates to 1,320 feet of marking per mile of single length, in gross miles, of 10-30 or 3-9 skip line.~~

~~(c)3.~~ The net length, in *linear* feet, of ~~each of all other types of lines and stripes, authorized and acceptably applied~~ *transverse lines, diagonal lines, chevrons, and parking spaces.*

~~(d)4.~~ The number of pavement messages, symbols, and ~~directional~~ arrows, ~~authorized and acceptably applied.~~ *Each arrow is paid as a complete marking, regardless of the number of "points" or directions.*

~~(e)5.~~ Lump Sum, as specified in 710-4.1.1 ~~when the item for painted pavement markings (final surface) is included in the proposal.~~

5. The area, in square feet, for removal of existing markings acceptably removed. Payment for removal of conflicting markings will be in accordance with 102-5.8. Payment for removal of non-conflicting markings will be paid separately.

~~The net length, in feet, of~~ *Guide lines and dotted and skip stripes, other than 10-30 and 3-9, extension lines will be paid per linear foot, measured as the distance from the beginning of the first painted stripe line to the end of the last painted stripe line with proper deductions made for unpainted intervals as determined by plan dimensions or stations, subject to 9-1.3. Unpainted intervals will not be included in pay quantity.*

The net gross mile measurement will be taken as the distance from the beginning of the solid painted line to the end of the solid painted line. The gross mile measurement of 10-30 and 3-9 skip traffic stripe line will be taken as the distance from the beginning of the first painted stripe skip line to the end of the last painted stripe skip line, and will include the unpainted unmarked intervals gaps for skip and dotted lines. The actual applied line is 25% of the traversed distance for a 1:3 ratio. This equates to 1,320 feet of marking per mile of single line. It The gross mile measurement will not include any lengths of designated unpainted unmarked intervals which, by design or by other intent of the Department, are greater than 30 feet lengths at intersections, turn lanes, etc. Final measurement will be determined by plan dimensions or stations, subject to 9-1.3.1.

710-11 Basis of Payment.

710-11.1 General: Prices and payments will be full compensation for all work specified in this Section, including, all cleaning and preparing of surfaces, furnishing of all materials, application, curing and protection of all items, protection of traffic, furnishing of all tools, machines and equipment, and all incidentals necessary to complete the work. Final payment will be withheld until all deficiencies are corrected.

710-11.2 Lump Sum Payment: ~~When the item for painted pavement markings (final surface) is included in the proposal,~~ Prices and payments *for painted pavement markings (final surface)* will be full compensation for ~~two~~ *all* applications of ~~all~~ painted pavement markings ~~applied~~ to the final surface, and one application of retroreflective pavement markers applied to the final surface in accordance with Section 706.

Payment will be made under:

Item No. 710	Painted Pavement Markings.
	Traffic Stripes, Solid - per net-gross mile.
	Traffic Stripes, Solid - per linear foot.
	Traffic Stripes, Skip - per gross mile.
	Traffic Stripes, Skip - per foot.
	Dotted Extension/Guide Line - per linear foot gross
	<i>mile.</i>
	Messages <i>or Symbol</i> -each.

7100000.*D01*

All Jobs

Arrows - each.

Yield ~~Markings~~*Line* - per *linear* foot.

Island Nose - per square foot.

Item No. 710-90

Painted Pavement Markings (Final Surface) - lump sum.

PAINTED PAVEMENT MARKINGS.**(REV 2-24-15)**

SECTION 710 is deleted and the following substituted:

**SECTION 710
PAINTED PAVEMENT MARKINGS**

710-1 Description.

Apply painted pavement markings, in accordance with the Contract Documents.

710-2 Materials.

Use only materials listed on the Department's Approved Product List (APL) meeting the following requirements:

Raised Retroreflective Pavement Markers and Bituminous Adhesive	Section 970
Standard Paint	971-1 and 971-3
Durable Paint	971-1 and 971-4
Glass Spheres	971-1 and 971-2

The Engineer will take random samples of all material in accordance with the Department's Sampling, Testing and Reporting Guide schedule.

710-3 Equipment.

Use equipment that will produce continuous uniform dimensions of pavement markings of varying widths and meet the following requirements:

1. Capable of traveling at a uniform, predetermined rate of speed, both uphill and downhill, in order to produce a uniform application of paint and capable of following straight lines and making normal curves in a true arc.
2. Capable of applying glass spheres to the surface of the completed line by an automatic sphere dispenser attached to the pavement marking machine such that the glass spheres are dispensed closely behind the installed line. Use a glass spheres dispenser equipped with an automatic cut-off control that is synchronized with the cut-off of the paint and applies the glass spheres in a manner such that the spheres appear uniform on the entire pavement markings surface.
3. Capable of spraying the paint to the required thickness and width without thinning of the paint. Equip the paint tank with nozzles equipped with cut-off valves, which will apply broken or skip lines automatically.

710-4 Application.

710-4.1 General: Remove existing pavement markings, such that scars or traces of removed markings will not conflict with new pavement markings, by a method approved by the Engineer.

Before applying pavement markings, remove any material that would adversely affect the bond of the pavement markings by a method approved by the Engineer.

Apply standard paint to dry surfaces only, and when the ambient air and surface temperature is at least 40°F and rising.

Apply durable paint to dry surfaces only. Do not apply durable paint when the ambient air and surface temperature is below 50°F, relative humidity is above 80% or when the dew point is within 5°F of the ambient air temperature.

Do not apply painted pavement markings when winds are sufficient to cause spray dust.

Apply painted pavement markings, having well defined edges, over existing pavement markings such that not more than 2 inches on either end and not more than 1 inch on either side is visible. When stencils are used to apply symbols and messages, the areas covered by the stencil reinforcing will not be required to be painted.

Mix the paint thoroughly prior to pouring into the painting machine. Apply paint to the pavement by spray or other means approved by the Engineer.

Conduct field testing in accordance with FM 5-541. Remove and replace painted pavement markings not meeting the requirements of this Section at no additional cost to the Department.

Apply all pavement markings prior to opening the road to traffic.

710-4.1.1 Final Surface: When permanent pavement markings are included in the Plans, such as thermoplastic, tape, etc., the painted pavement markings (final surface) will include one application of standard paint and one application of retroreflective pavement markers applied to the final newly constructed surface prior to the final permanent markings. If no permanent pavement markings, such as thermoplastic, tape etc., are included in the Plans, the painted pavement markings (final surface) will include two applications of standard paint and one application of retroreflective pavement markers applied to the final surface. Wait at least 14 days after the first application to apply the second application of paint. Second application must be applied prior to final acceptance of the project.

Apply all retroreflective pavement markers per the requirements of Section 706.

710-4.2 Thickness: Apply standard paint to attain a minimum wet film thickness in accordance with the manufacturer's recommendations. Apply durable paint to attain a minimum wet film thickness of 0.025 inches or 25 mils. Measure, record and certify on a Department approved form and submit to the Engineer, the thickness of white and yellow durable paint pavement markings in accordance with FM 5-541.

710-4.3 Retroreflectivity: Apply white and yellow standard paint that will attain an initial retroreflectance of not less than 300 mcd/lx·m² and not less than 250 mcd/lx·m², respectively. Apply white and yellow durable paint that will attain an initial retroreflectance of not less than 450 mcd/lx·m² and not less than 300 mcd/lx·m², respectively.

Measure, record and certify on a Department approved form and submit to the Engineer, the retroreflectivity of white and yellow pavement markings in accordance with FM 5-541.

The Department reserves the right to test the markings within three days of receipt of the Contractor's certification. Failure to afford the Department opportunity to test the markings will result in non-payment. The test readings should be representative of the Contractor's pavement marking performance. If the retroreflectivity values measure below values shown above, reapply the pavement marking at no additional cost to the Department.

For standard paint, ensure that the minimum retroreflectance of white and yellow pavement markings are not less than 150 mcd/lx m². If the retroreflectivity values for standard paint fall below the 150 mcd/lx m² value within 180 days of initial application, the pavement

marking will be reapplied at the Contractor's expense. If the retroreflectivity values for durable paint fall below the initial values of 450 mcd/lx m² value for white and 300 mcd/lx m² for yellow within 180 days of initial application, the pavement marking will be reapplied at the Contractor's expense.

710-4.4 Color: Use paint material that meets the requirements of 971-1.

710-4.5 Glass Spheres: Apply glass spheres on all pavement markings immediately and uniformly following the paint application. The rate of application shall be based on the manufacturer's recommendation.

For longitudinal durable paint markings, apply a double drop of Type 1 and Type 3 glass spheres. For transverse durable paint markings, apply a single drop of Type 3 glass spheres.

The rate of application shall be based on the manufacturer's recommendation.

710-5 Tolerances in Dimensions and in Alignment.

Establish tack points at appropriate intervals for use in aligning pavement markings, and set a stringline from such points to achieve accuracy.

710-5.1 Dimensions:

710-5.1.1 Longitudinal Lines: Apply painted skip line segments with no more than plus or minus 12 inches variance, so that over-tolerance and under-tolerance lengths between skip line and the gap will approximately balance. Apply longitudinal lines at least 2 inches from construction joints of portland cement concrete pavement.

710-5.1.2 Transverse Markings, Gore Markings, Arrows, and Messages: Apply paint in multiple passes when the marking cannot be completed in one pass, with an overall line width allowable tolerance of plus or minus 1 inch.

710-5.1.3 Contrast Lines: Use black paint to provide contrast on concrete or light asphalt pavement, when specified by the Engineer. Apply black paint in 10 foot segments following each longitudinal skip line.

710-5.2 Alignment: Apply painted pavement markings that will not deviate more than 1 inch from the stringline on tangents and curves one degree or less. Apply painted pavement markings that will not deviate more than 2 inches from the stringline on curves greater than one degree. Apply painted edge markings uniformly, not less than 2 inches or more than 4 inches from the edge of pavement, without noticeable breaks or deviations in alignment or width.

Remove and replace at no additional cost to the Department, pavement markings that deviate more than the above stated requirements.

710-5.3 Correction Rates: Make corrections of variations in width at a maximum rate of 10 feet for each 0.5 inch of correction. Make corrections of variations in alignment at a maximum rate of 25 feet for each 1 inch of correction, to return to the stringline.

710-6 Contractor's Responsibility for Notification.

Notify the Engineer prior to the placement of the materials. Furnish the Engineer with the manufacturer's name and batch numbers of the materials and glass spheres to be used. Ensure that the approved batch numbers appear on the materials and glass spheres packages.

710-7 Protection of Newly Applied Pavement Markings.

Do not allow traffic onto or permit vehicles to cross newly applied pavement markings until they are sufficiently dry. Remove and replace any portion of the pavement markings damaged by passing traffic or from any other cause, at no additional cost to the Department.

710-8 Corrections for Deficiencies to Applied Painted Pavement Markings.

Reapply a 1.0 mile section, centered around any deficiency, at no additional cost to the Department.

710-9 Submittals.

710-9.1 Submittal Instructions: Prepare a certification of quantities, using the Department's current approved form, for each project in the Contract. Submit the certification of quantities and daily worksheets to the Engineer. The Department will not pay for any disputed items until the Engineer approves the certification of quantities.

710-9.2 Contractor's Certification of Quantities: Request payment by submitting a certification of quantities no later than Twelve O'clock noon Monday after the estimate cut-off date or as directed by the Engineer, based on the amount of work done or completed. Ensure the certification of quantities consists of the following:

1. Contract Number, FPID Number, Certification Number, Certification Date and the period that the certification represents.
2. The basis for arriving at the amount of the progress certification, less payments previously made and less any amount previously retained or withheld. The basis will include a detailed breakdown provided on the certification of items of payment.

710-10 Method of Measurement.

The quantities, authorized and acceptably applied, under this Section will be paid as follows:

1. The length, in gross miles, of solid, 10'-30' skip, 3'-9' dotted, 6'-10' dotted, and 2'-4' dotted lines.
2. The length, in linear feet, of transverse lines, diagonal lines, chevrons, and parking spaces.
3. The number of pavement messages, symbols, and arrows. Each arrow is paid as a complete marking, regardless of the number of "points" or directions.
4. Lump Sum, as specified in 710-4.1.1 (final surface).
5. The area, in square feet, for removal of existing markings acceptably removed. Payment for removal of conflicting markings will be in accordance with 102-5.8. Payment for removal of non-conflicting markings will be paid separately.

The gross mile measurement will be taken as the distance from the beginning of the painted line to the end of the painted line and will include the unmarked gaps for skip and dotted lines. The gross mile measurement will not include designated unmarked lengths at intersections, turn lanes, etc. Final measurement will be determined by plan dimensions or stations, subject to 9-1.3.1.

710-11 Basis of Payment.

710-11.1 General: Price and payment will be full compensation for all work specified in this Section, including all cleaning and preparing of surfaces, furnishing of all materials, application, curing and protection of all items, protection of traffic, furnishing of all tools, machines and equipment, and all incidentals necessary to complete the work. Final payment will be withheld until all deficiencies are corrected.

710-11.2 Lump Sum Payment: Price and payment for painted pavement markings (final surface) will be full compensation for all applications of painted pavement markings to the final

surface, and one application of retroreflective pavement markers applied to the final surface in accordance with Section 706.

Payment will be made under:

Item No. 710	Painted Pavement Markings. Solid - per gross mile. Solid - per linear foot. Skip - per gross mile. Dotted - per gross mile. Message or Symbol -each. Arrows - each. Yield Line - per linear foot. Island Nose - per square foot.
Item No. 710-90	Painted Pavement Markings (Final Surface) - lump sum.