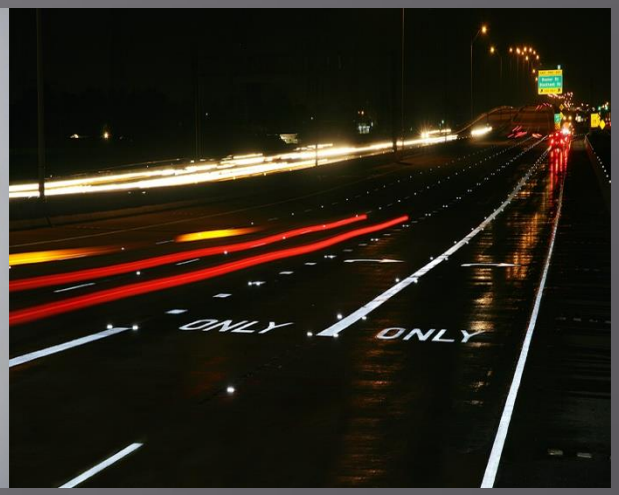
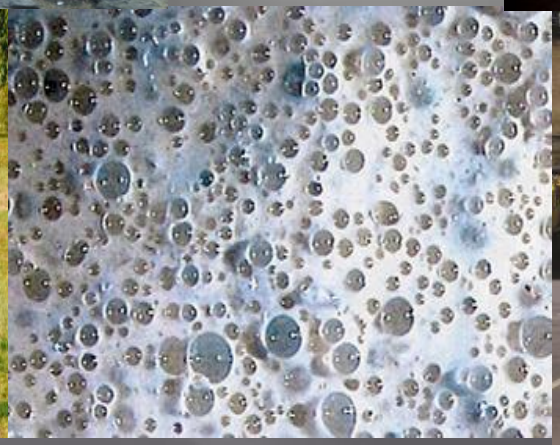


Understanding Pavement Markings

Doc Tisdale, 443-572-5296

Donnie DeBerry, 443-572-5287



ICE BREAKER???

ICE BREAKER???

- Do you know how many state facilitated roadway miles there are in the state of MARYLAND?
- Do you know how many TONS of Asphalt was used during 2015 MARYLAND roadway paving operations?

ICE BREAKER???

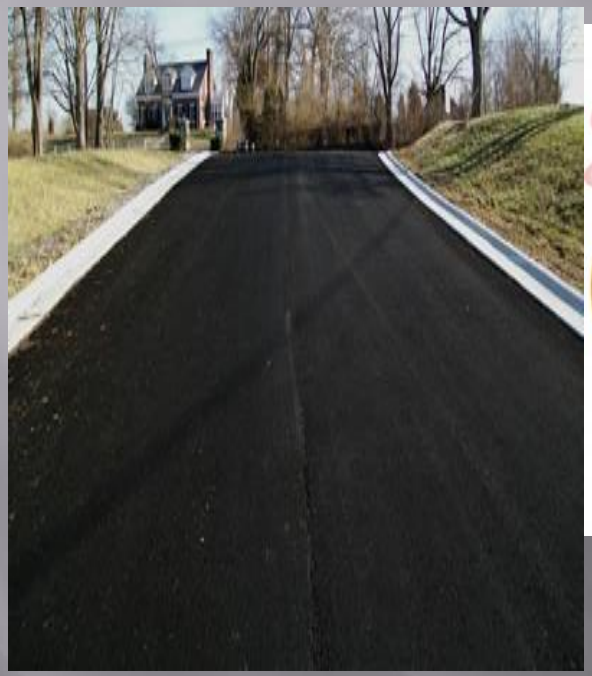
- Do you know how many roadway miles there is in the State of MARYLAND???

  *State Facilitated: 17,116

- Do you know how many TONS of Asphalt was used during 2015 MARYLAND roadway paving operations???

  *2015: 1.65M

RELATIONSHIP



Eventually They Will Become ONE

Good Workmanship and Proper Installation

- **Ensure temporary pavement markers are installed correctly**
  - According specs and manufacturer's recommendations
- **Contractor's QC inspector must constantly monitor quality and workmanship of material being applied**
  - Must be dedicated to the job - no job hopping

Project Engineer Responsibility

- Please fill-out the Pavement Marking Inspections Request form. Once completed submit to the Pavement Marking Management System (PMMS).
- The Field Quality Assurance Team will perform the inspection on the specified location indicated on the request form.

OMT13-Posted 07-15-13

Maryland State Highway Administration
Office of Materials Technology
Structural Materials and Pavement Markings Division
7450 Traffic Drive
Hanover, Maryland 21076

PAVEMENT MARKING INSPECTION AND DATA REQUEST FORM

To: Pavement Marking Team Attn: _____

From: _____ Phone & Fax #: _____

Contract & FAP #: _____

Type of Inspection: _____

Location of Inspection: Route # _____ From _____ To _____

Location of Field Office: _____

_____

Type of Material Applied: _____

Striping Contractor: _____

Date Material Applied: _____

Material Manufacturer: _____

Lot Number(s) of Material: _____

Glass Sphere Manufacturer: _____

Lot Number(s) of Glass Spheres: _____

Type of Roadway Surface: _____

Is traffic control needed? _____ If yes, will traffic control be provided? _____

Inspection Date Requested: _____ Today's Date: _____

Project Engineer, please submit the striping contractor's Quality Control Results with this request to the email below. If you have any questions please call Donnie DeBerry at 443-764-7531.

PMMS Email Address
sha_pmms@sha.state.md.us

Revised 3/21/13

Pavement Markings Installations

- Under NO circumstance should any pavement markings installation take place, if there isn't a Certificated Line-Striping Inspector or SHA Inspector present during the time of installation.

Placement and Control Strip

- Do not begin a placement operations until the QCP is approved and a walkthrough has been performed to approve the layout with the Engineer, Contractor, and pavement marking foreman.

Typical Pavement Markings Issues

- Paints:
  - Marking are installed at low millage.
  - Marking are installed at high millage.
  - Poor glass bead distribution.
- Thermoplastics:
  - Marking are not installed at the proper thickness.
  - Beads applied are not embedded properly.
  - Incorrect methods are used for the wrong scenarios.
- Tapes:
  - Poor adherence to the surface.
  - Tape is not rolled to the surface in the correct direction.

Typical Pavement Markings Issues

- Surface Treatment:
  - Old Pavement Marking being to show through the surface.
  - New and Old Pavement Marking stagger each other.

- All Pavement Marking have some level of sensitive to weather conditions.

<u>Follow Manufacture Recommendations</u>

New Initiative

- Pavement Marking Tape in groove.
- Pavement Marking Thermoplastics 40/90 mil in groove.
- Polyuria with special glass bead elements.
- Methyl-Methacrylate.

Questions