

**Quadrant: S**  
**Section: 5**  
**Sublot: Surface**

**Laboratory Diary**

General Description of Mix and Materials

Design Method: Superpave  
 Compactive Effort: 75 gyrations  
 Binder Performance Grade: 76-22  
 Modifier Type: SBS  
 Aggregate Type: Grv/Lms/Snd  
 Gradation Type: TRZ

Avg. Lab Properties of Plant Produced Mix

<u>Sieve Size:</u>	<u>Design</u>	<u>QC:</u>
1":	100	100
3/4":	100	100
1/2":	96	96
3/8"	87	87
No. 4	68	66
No. 8	45	43
No. 16	33	30
No. 30	22	21
No. 50	10	10
No. 100	7	7
No. 200	5.0	5.5
Asphalt Content	5.5	5.6
Pill Bulk Gravity:		2.323
TMD (Rice ):		2.392
Avg Air Voids		2.9
Avg VMA:		14

**General Notes:**

- 1) Mixes are referenced by quadrant (E=East, N=North, W=West, and S=South), section number (sequential) and sublot;
- 2) Sections are listed in the order they appear on the Track beginning with E2 and continuing counterclockwise to E1;
- 3) The total research thickness of all rutting study sections ranges from 3/4 to 4 inches by design;
- 4) The total HMA thickness of all structural study sections (N1 through N8) ranges from 5 to 9 inches by design;
- 5) ARZ, TRZ, and BRZ refer to gradations intended to pass above, through and below the restricted zone, respectively;
- 6) SMA and OGFC refer to stone matrix asphalt and open-graded friction course, respectively.

**Construction Diary**

Relevant Conditions for Construction

Completion Date: Thursday, August 14, 2003  
 24 Hour High Temperature (F): 89  
 24 Hour Low Temperature (F): 71  
 24 Hour Rainfall (in): 0.01  
 Lift type: Surface  
 Planned Mill / Lift Thickness (in): 1.5

Plant Configuration and Placement Details

<u>Component:</u>	<u>% Setting:</u>
Asphalt Content (Plant Setting)	5.5
1/2 Arlington Crushed Gravel	56.0
10 Memphis Limestone Screenin	25.0
Arlington Natural Sand	19.0
Approximate Length (ft):	203
Survey Mill / Lift Thickness (in):	1.7
Type of Tack Coat Utilized:	PG67-22
Target Tack Application Rate (gal/sy):	0.03
Avg Temperature In Truck (F):	325
Avg Section Compaction:	93.1