

**Quadrant: W**  
**Section: 6**  
**Sublot: Surface**

**Laboratory Diary**

General Description of Mix and Materials

Design Method: Superpave  
 Compactive Effort: 50 gyrations  
 Binder Performance Grade: 76-22  
 Modifier Type: SBS  
 Aggregate Type: Lms/Grv/Snd  
 Gradation Type: ARZ

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":	100	100
3/8"	100	100
No. 4	99	98
No. 8	72	75
No. 16	43	50
No. 30	30	35
No. 50	18	22
No. 100	11	15
No. 200	8.0	11.3
Asphalt Content	7.5	6.1
Pill Bulk Gravity:		2.314
TMD (Rice ):		2.411
Avg Air Voids		4.0
Avg VMA:		16

**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 21, 2003  
 24 Hour High Temperature (F): 88  
 24 Hour Low Temperature (F): 68  
 24 Hour Rainfall (in): 0  
 Lift type: Surface  
 Planned Mill / Lift Thickness (in): 0.8

Plant Configuration and Placement Details

<u>Component:</u>	<u>% Setting:</u>
Asphalt Content (Plant Setting)	6.5
Cherokee Limestone	69.3
Guntown Crushed Gravel	18.8
Mississippi Natural Sand	10.9
Hydrated Lime	1.0
Approximate Length (ft):	203
Survey Mill / Lift Thickness (in):	0.8
Type of Tack Coat Utilized:	PG67-22
Target Tack Application Rate (gal/sy):	0.03
Avg Temperature In Truck (F):	310
Avg Section Compaction:	92.2