

**Quadrant: E**  
**Section: 2**  
**Sublot: Surface**

**Laboratory Diary**

General Description of Mix and Materials

Design Method: Superpave  
 Compactive Effort: 100 gyrations  
 Binder Performance Grade: 67-22  
 Modifier Type: NA  
 Aggregate Type: Limestone  
 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":	96	96
3/8"	94	93
No. 4	74	73
No. 8	53	55
No. 16	43	44
No. 30	37	37
No. 50	23	24
No. 100	9	10
No. 200	4.0	5.1
Asphalt Content	7.9	7.8
Pill Bulk Gravity:		2.203
TMD (Rice ):		2.271
Avg Air Voids		3.0
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: Friday, August 01, 2003  
 24 Hour High Temperature (F): 89  
 24 Hour Low Temperature (F): 69  
 24 Hour Rainfall (in): 0.17  
 Lift type: Surface  
 Planned Mill / Lift Thickness (in): 2.0

Plant Configuration and Placement Details

<u>Component:</u>	<u>% Setting:</u>
Asphalt Content (Plant Setting)	8.0
S1A Marine Limestone	8.0
S1B Marine Limestone	27.0
Alachua Screenings	50.0
Florida Local Sand	15.0
Approximate Length (ft):	213
Survey Mill / Lift Thickness (in):	2.0
Type of Tack Coat Utilized:	PG67-22
Target Tack Application Rate (gal/sy):	0.03
Avg Temperature In Truck (F):	300
Avg Section Compaction:	94.8

**Quadrant: E**  
**Section: 2**  
**Sublot: Binder**

**Laboratory Diary**

General Description of Mix and Materials

Design Method: Superpave  
 Compactive Effort: 100 gyrations  
 Binder Performance Grade: 67-22  
 Modifier Type: NA  
 Aggregate Type: Limestone  
 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":	96	96
3/8"	94	92
No. 4	74	72
No. 8	53	55
No. 16	43	44
No. 30	37	37
No. 50	23	25
No. 100	9	11
No. 200	4.0	5.7
Asphalt Content	7.9	7.7
Pill Bulk Gravity:		2.189
TMD (Rice ):		2.280
Avg Air Voids		4.0
Avg VMA:		14

**Construction Diary**

Relevant Conditions for Construction

Completion Date: Tuesday, July 29, 2003  
 24 Hour High Temperature (F): 91  
 24 Hour Low Temperature (F): 70  
 24 Hour Rainfall (in): 0  
 Lift type: Binder  
 Planned Mill / Lift Thickness (in): 2.0

Plant Configuration and Placement Details

<u>Component:</u>	<u>% Setting:</u>
Asphalt Content (Plant Setting)	8.0
S1A Marine Limestone	10.0
S1B Marine Limestone	25.0
Alachua Screenings	50.0
Florida Local Sand	15.0
Approximate Length (ft):	213
Survey Mill / Lift Thickness (in):	2.0
Type of Tack Coat Utilized:	PG67-22
Target Tack Application Rate (gal/sy):	0.03
Avg Temperature In Truck (F):	306
Avg Section Compaction:	95.1

**General Notes:**

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- 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;
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