Quadrant: **N**
Section: **13**
Sublot: **Surface**

Laboratory Diary

General Description of Mix and Materials

Design Method:	SMA
Compactive Effort:	50 gyrations
Binder Performance Grade:	76-22
Modifier Type:	SBS
Aggregate Type:	Granite
Gradation Type:	SMA

Avg. Lab Properties of Plant Produced Mix

Sieve Size:	Design	QC:
1":	100	100
3/4":	100	100
1/2":	97	95
3/8"	67	71
No. 4	27	32
No. 8	19	21
No. 16	16	18
No. 30	14	16
No. 50	14	15
No. 100	13	14
No. 200	11.0	12.1
Asphalt Content	5.9	5.9
Pill Bulk Gravity:		2.324
TMD (Rice):		2.393
Avg Air Voids		2.9
Avg VMA:		16

Construction Diary

Relevant Conditions for Construction

Completion Date:	Tuesday, August 19, 2003
24 Hour High Temperature (F):	87
24 Hour Low Temperature (F):	70
24 Hour Rainfall (in):	0.03
Lift type:	Surface
Planned Mill / Lift Thickness (in):	1.8

Plant Configuration and Placement Details

Component:	% Setting:
Asphalt Content (Plant Setting)	5.6
7M Cayce Granite	73.0
89M Cayce Granite	10.0
Cayce Regular Screenings	8.0
Boral Flyash	8.0
Hydrated Lime	1.0
Approximate Length (ft):	199
Survey Mill / Lift Thickness (in):	1.7
Type of Tack Coat Utilized:	PG67-22
Target Tack Application Rate (gal/sy):	0.07
Avg Temperature In Truck (F):	353
Avg Section Compaction:	94.6

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.

Quadrant: **N**
Section: **13**
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:	Granite
Gradation Type:	TRZ

Avg. Lab Properties of Plant Produced Mix

Sieve Size:	Design	QC:
1":	100	100
3/4":	99	100
1/2":	76	80
3/8"	64	68
No. 4	39	42
No. 8	25	29
No. 16	19	24
No. 30	15	20
No. 50	9	14
No. 100	5	9
No. 200	3.0	5.3
Asphalt Content	4.3	4.3
Pill Bulk Gravity:		2.424
TMD (Rice):		2.501
Avg Air Voids		3.1
Avg VMA:		11

Construction Diary

Relevant Conditions for Construction

Completion Date: Wednesday, August 06, 2003

24 Hour High Temperature (F):	85
24 Hour Low Temperature (F):	67
24 Hour Rainfall (in):	0.05
Lift type:	Binder
Planned Mill / Lift Thickness (in):	1.8

Plant Configuration and Placement Details

Component:	% Setting:
Asphalt Content (Plant Setting)	4.2
6M Liberty Granite	35.6
789 Liberty Granite	44.6
Liberty Manufactured Sand	10.9
Liberty Regular Screenings	7.9
Hydrated Lime	1.0
Approximate Length (ft):	199
Survey Mill / Lift Thickness (in):	1.5
Type of Tack Coat Utilized:	PG67-22
Target Tack Application Rate (gal/sy):	0.07
Avg Temperature In Truck (F):	325
Avg Section Compaction:	93.9

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.