

Quadrant: S
Section: 3
Sublot: 1

Laboratory DiaryGeneral Description of Mix and Materials

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

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":	93	92
No. 4:	23	31
No. 8:	11	12
No. 16:	10	9
No. 30:	9	8
No. 50:	7	6
No. 100:	2	5
No. 200:	4.2	3.8
Asphalt Content:	6.4	6.7
Pill Bulk Gravity:	1.838	1.813
TMD (Rice):	2.297	2.319
Avg Air Voids:	20.0	21.8
Avg VMA:	30.6	31.1

Construction DiaryRelevant Conditions for Construction

Completion Date:	October 4, 2006
24 Hour High Temperature (F):	86
24 Hour Low Temperature (F):	63
24 Hour Rainfall (in):	0.00
Planned Mill / Lift Thickness (in):	1.00
Paving Machine:	Roadtec

Plant Configuration and Placement Details

<u>Component</u>	<u>% Setting</u>
Asphalt Content (Plant Setting)	6.4
-3/8 + #8 Monticello	63.4
-1/2 Georgetown	35.6
Hyd Lime	1.0
Cellulose	0.3
Approximate Length (ft):	201
Survey Mill / Lift Thickness (in):	1.3
Type of Tack Coat Utilized:	67-22
Target Tack Application Rate (gal/sy):	0.05
Avg Temperature at Plant (F):	350
Avg Section Compaction:	75.7%

General Notes:

- 1) Mixes are referenced by quadrant (E=East, N=North, W=West, and S=South), section number (sequential) and subplot (top=1);
- 2) The total research thickness of all mix performance sections ranges from 3/4 to 4 inches by design;
- 3) The total HMA thickness of all structural study sections (N1 through N10) ranges from 7 to 14 inches by design;
- 4) ARZ, TRZ and BRZ refer to gradations intended to pass above, through and below the restricted zone, respectively;
- 5) SMA and OGFC refer to stone matrix asphalt and open-graded friction course, respectively; and
- 6) VMA values computed from QC volumetrics are based on design values of Gsb (stockpile gravity testing is ongoing).

Quadrant: S
Section: 3
Sublot: 2

Laboratory DiaryGeneral Description of Mix and Materials

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

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":	96	96
No. 4:	48	51
No. 8:	23	24
No. 16:	17	17
No. 30:	14	14
No. 50:	12	12
No. 100:	10	11
No. 200:	9.7	10.3
Asphalt Content:	6.3	6.7
Pill Bulk Gravity:	2.312	2.328
TMD (Rice):	2.408	2.416
Avg Air Voids:	4.0	3.6
Avg VMA:	17.7	17.2

Construction DiaryRelevant Conditions for Construction

Completion Date: October 3, 2006
 24 Hour High Temperature (F): 86
 24 Hour Low Temperature (F): 64
 24 Hour Rainfall (in): 0.00
 Planned Mill / Lift Thickness (in): 1.50
 Paving Machine: Roadtec

Plant Configuration and Placement Details

<u>Component</u>	<u>% Setting</u>
Asphalt Content (Plant Setting)	6.3
89 Calera Limestone	52.0
-3/8 +#8 Monticello	10.0
-1/2 Georgetown	13.0
821 Calera Limestone	18.0
Hyd Lime	1.0
Flyash	6.0
Cellulose	0.3
Approximate Length (ft):	201
Survey Mill / Lift Thickness (in):	1.5
Type of Tack Coat Utilized:	67-22
Target Tack Application Rate (gal/sy):	0.05
Avg Temperature at Plant (F):	340
Avg Section Compaction:	92.7%

General Notes:

- 1) Mixes are referenced by quadrant (E=East, N=North, W=West, and S=South), section number (sequential) and subplot (top=1);
- 2) The total research thickness of all mix performance sections ranges from 3/4 to 4 inches by design;
- 3) The total HMA thickness of all structural study sections (N1 through N10) ranges from 7 to 14 inches by design;
- 4) ARZ, TRZ and BRZ refer to gradations intended to pass above, through and below the restricted zone, respectively;
- 5) SMA and OGFC refer to stone matrix asphalt and open-graded friction course, respectively; and
- 6) VMA values computed from QC volumetrics are based on design values of Gsb (stockpile gravity testing is ongoing).