

**Quadrant:** S  
**Section:** 8A  
**Sublot:** 1

**Laboratory Diary**General Description of Mix and Materials

Design Method:	Super
Compactive Effort:	60 gyrations
Binder Performance Grade:	64-22+
Modifier Type:	NA
Aggregate Type:	Grn/Lms/Snd
Design Gradation Type:	Dense

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":	97	97
3/8":	86	85
No. 4:	64	69
No. 8:	51	47
No. 16:	40	37
No. 30:	29	28
No. 50:	17	17
No. 100:	11	11
No. 200:	7.4	7.3
Asphalt Content:	5.8	5.5
Pill Bulk Gravity:	2.379	2.451
TMD (Rice):	2.478	2.510
Avg Air Voids:	4.0	2.4
Avg VMA:	16.6	13.5

**Construction Diary**Relevant Conditions for Construction

Completion Date:	February 1, 2008
24 Hour High Temperature (F):	48
24 Hour Low Temperature (F):	34
24 Hour Rainfall (in):	0.72
Planned Mill / Lift Thickness (in):	2.00
Paving Machine:	Blaw Knox

Plant Configuration and Placement Details

<u>Component</u>	<u>% Setting</u>
Asphalt Content (Plant Setting)	5.8
78 LaGrange Granite	35.0
M10 Columbus Granite	15.0
Shorter Coarse Sand	20.0
8910 Opelika Limestone Screenings	30.0
Approximate Length (ft):	100
Survey Mill / Lift Thickness (in):	NA
Type of Tack Coat Utilized:	67-22
Target Tack Application Rate (gal/sy):	0.05
Avg Temperature at Plant (F):	305
Avg Section Compaction:	95.4%

**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:** 8B  
**Sublot:** 1

**Laboratory Diary**General Description of Mix and Materials

Design Method:	Super
Compactive Effort:	60 gyrations
Binder Performance Grade:	64-22+++
Modifier Type:	NA
Aggregate Type:	Grn/Lms/Snd
Design Gradation Type:	Dense

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":	97	97
3/8":	86	88
No. 4:	64	72
No. 8:	51	50
No. 16:	40	38
No. 30:	29	28
No. 50:	17	17
No. 100:	11	11
No. 200:	7.4	7.1
Asphalt Content:	5.8	6.1
Pill Bulk Gravity:	2.379	2.464
TMD (Rice):	2.478	2.496
Avg Air Voids:	4.0	1.3
Avg VMA:	16.6	13.6

**Construction Diary**Relevant Conditions for Construction

Completion Date:	February 1, 2008
24 Hour High Temperature (F):	48
24 Hour Low Temperature (F):	34
24 Hour Rainfall (in):	0.72
Planned Mill / Lift Thickness (in):	2.00
Paving Machine:	Blaw Knox

Plant Configuration and Placement Details

<u>Component</u>	<u>% Setting</u>
Asphalt Content (Plant Setting)	6.0
78 LaGrange Granite	35.0
M10 Columbus Granite	15.0
Shorter Coarse Sand	20.0
8910 Opelika Limestone Screenings	30.0
Approximate Length (ft):	97
Survey Mill / Lift Thickness (in):	NA
Type of Tack Coat Utilized:	67-22
Target Tack Application Rate (gal/sy):	0.05
Avg Temperature at Plant (F):	315
Avg Section Compaction:	96.7%

**General Notes:**

- 1) Mixes are referenced by quadrant (E=East, N=North, W=West, and S=South), section number (sequential) and subplot (top=1);
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