

Quadrant: S
Section: 7A
Sublot: 1

Laboratory DiaryGeneral 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	98
3/8":	86	91
No. 4:	64	80
No. 8:	51	55
No. 16:	40	42
No. 30:	29	32
No. 50:	17	21
No. 100:	11	13
No. 200:	7.4	8.4
Asphalt Content:	5.8	5.8
Pill Bulk Gravity:	2.379	2.454
TMD (Rice):	2.478	2.514
Avg Air Voids:	4.0	2.4
Avg VMA:	16.6	14.3

Construction DiaryRelevant 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)	5.6
78 LaGrange Granite	27.0
M10 Columbus Granite	18.0
Shorter Coarse Sand	17.0
8910 Opelika Limestone Screenings	38.0
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):	300
Avg Section Compaction:	95.0%

General Notes:

- 1) Mixes are referenced by quadrant (E=East, N=North, W=West, and S=South), section number (sequential) and sublot (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: 7B
Sublot: 1

Laboratory DiaryGeneral 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	98
3/8":	86	88
No. 4:	64	74
No. 8:	51	52
No. 16:	40	40
No. 30:	29	29
No. 50:	17	18
No. 100:	11	12
No. 200:	7.4	7.6
Asphalt Content:	5.8	5.9
Pill Bulk Gravity:	2.379	2.459
TMD (Rice):	2.478	2.502
Avg Air Voids:	4.0	1.7
Avg VMA:	16.6	13.6

Construction DiaryRelevant 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)	5.6
78 LaGrange Granite	35.0
M10 Columbus Granite	15.0
Shorter Coarse Sand	20.0
8910 Opelika Limestone Screenings	30.0
Approximate Length (ft):	102
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):	300
Avg Section Compaction:	94.7%

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).