

Quadrant: N
Section: 2
Sublot: 1

Laboratory DiaryGeneral Description of Mix and Materials

Design Method:	Super
Compactive Effort:	100 gyrations
Binder Performance Grade:	76-22
Modifier Type:	SBS
Aggregate Type:	Grn/Lms
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":	82	85
No. 4:	60	61
No. 8:	50	50
No. 16:	38	39
No. 30:	28	31
No. 50:	19	23
No. 100:	12	15
No. 200:	7.0	9.6
Asphalt Content:	4.8	4.8
Pill Bulk Gravity:	2.413	2.429
TMD (Rice):	2.514	2.499
Avg Air Voids:	4.0	2.8
Avg VMA:	14.4	13.3

Construction DiaryRelevant Conditions for Construction

Completion Date:	September 29, 2006
24 Hour High Temperature (F):	73
24 Hour Low Temperature (F):	48
24 Hour Rainfall (in):	0.00
Planned Mill / Lift Thickness (in):	2.00
Paving Machine:	Roadtec

Plant Configuration and Placement Details

<u>Component</u>	<u>% Setting</u>
Asphalt Content (Plant Setting)	4.7
78 LaGrange Granite	45.0
M10 Columbus Granite	45.0
8910 Opelika Limestone Screenings	10.0
Approximate Length (ft):	200
Survey Mill / Lift Thickness (in):	2.0
Type of Tack Coat Utilized:	67-22
Target Tack Application Rate (gal/sy):	0.05
Avg Temperature at Plant (F):	315
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 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: N
Section: 2
Sublot: 2

Laboratory DiaryGeneral Description of Mix and Materials

Design Method:	Super
Compactive Effort:	100 gyrations
Binder Performance Grade:	76-22
Modifier Type:	SBS
Aggregate Type:	Grn/Lms
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	91
3/8":	82	82
No. 4:	60	62
No. 8:	50	50
No. 16:	38	41
No. 30:	28	29
No. 50:	19	16
No. 100:	12	10
No. 200:	7.0	6.6
Asphalt Content:	4.8	5.0
Pill Bulk Gravity:	2.413	2.384
TMD (Rice):	2.514	2.475
Avg Air Voids:	4.0	3.7
Avg VMA:	14.4	15.1

Construction DiaryRelevant Conditions for Construction

Completion Date:	September 28, 2006
24 Hour High Temperature (F):	84
24 Hour Low Temperature (F):	63
24 Hour Rainfall (in):	0.02
Planned Mill / Lift Thickness (in):	2.00
Paving Machine:	Roadtec

Plant Configuration and Placement Details

<u>Component</u>	<u>% Setting</u>
Asphalt Content (Plant Setting)	4.8
78 LaGrange Granite	43.0
M10 Columbus Granite	47.0
8910 Opelika Limestone Screenings	10.0
Approximate Length (ft):	200
Survey Mill / Lift Thickness (in):	2.0
Type of Tack Coat Utilized:	67-22
Target Tack Application Rate (gal/sy):	0.05
Avg Temperature at Plant (F):	310
Avg Section Compaction:	94.2%

General Notes:

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- 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: N
Section: 2
Sublot: 3

Laboratory DiaryGeneral Description of Mix and Materials

Design Method:	Super
Compactive Effort:	60 gyrations
Binder Performance Grade:	67-22
Modifier Type:	NA
Aggregate Type:	Lms/Grn/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":	94	96
1/2":	84	86
3/8":	72	75
No. 4:	53	54
No. 8:	45	45
No. 16:	36	36
No. 30:	28	26
No. 50:	15	14
No. 100:	8	9
No. 200:	5.0	5.6
Asphalt Content:	4.5	4.7
Pill Bulk Gravity:	2.468	2.424
TMD (Rice):	2.571	2.567
Avg Air Voids:	4.0	5.6
Avg VMA:	14.2	15.5

Construction DiaryRelevant Conditions for Construction

Completion Date:	September 27, 2006
24 Hour High Temperature (F):	81
24 Hour Low Temperature (F):	52
24 Hour Rainfall (in):	0.00
Planned Mill / Lift Thickness (in):	3.00
Paving Machine:	Roadtec

Plant Configuration and Placement Details

<u>Component</u>	<u>% Setting</u>
Asphalt Content (Plant Setting)	4.6
78 Opelika Limestone	33.0
57 Opelika Limestone	20.0
M10 Columbus Granite	25.0
Shorter Coarse Sand	22.0
Approximate Length (ft):	200
Survey Mill / Lift Thickness (in):	3.1
Type of Tack Coat Utilized:	67-22
Target Tack Application Rate (gal/sy):	0.05
Avg Temperature at Plant (F):	310
Avg Section Compaction:	94.9%

General Notes:

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- 3) The total HMA thickness of all structural study sections (N1 through N10) ranges from 7 to 14 inches by design;
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- 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).