

Quadrant: S
Section: 12
Sublot: 1

Laboratory DiaryGeneral Description of Mix and Materials

Design Method:	D-A
Compactive Effort:	50 gyrations
Binder Performance Grade:	76-22
Modifier Type:	SBS
Aggregate Type:	Granite
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":	100	100
3/8":	98	97
No. 4:	61	65
No. 8:	NA	38
No. 16:	NA	36
No. 30:	NA	18
No. 50:	NA	11
No. 100:	NA	10
No. 200:	5.7	7.4
Asphalt Content:	5.7	7.4
Pill Bulk Gravity:	2.334	2.357
TMD (Rice):	2.431	2.424
Avg Air Voids:	4.0	2.8
Avg VMA:	15.5	15.9

Construction DiaryRelevant Conditions for Construction

Completion Date:	October 19, 2006
24 Hour High Temperature (F):	82
24 Hour Low Temperature (F):	64
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)	6.7
Jones Mill, AR Screenings	40.0
Jones Mill, AR 3/8" X 1/8" (F Rock)	35.0
Jones Mill, AR D Rock	25.0
Approximate Length (ft):	199
Survey Mill / Lift Thickness (in):	2.6
Type of Tack Coat Utilized:	67-22
Target Tack Application Rate (gal/sy):	0.05
Avg Temperature at Plant (F):	345
Avg Section Compaction:	96.1%

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: 12
Sublot: 2

Laboratory DiaryGeneral Description of Mix and Materials

Design Method: RBL
 Compactive Effort: 75 gyrations
 Binder Performance Grade: 70-22
 Modifier Type: SBS
 Aggregate Type: Granite
 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":	100	100
3/8":	98	100
No. 4:	76	79
No. 8:	41	47
No. 16:	27	29
No. 30:	18	18
No. 50:	12	12
No. 100:	NA	8
No. 200:	5.5	6.2
Asphalt Content:	7.8	7.7
Pill Bulk Gravity:	2.328	2.341
TMD (Rice):	2.375	2.403
Avg Air Voids:	2.0	2.6
Avg VMA:	18.3	17.9

Construction DiaryRelevant Conditions for Construction

Completion Date: October 19, 2006
 24 Hour High Temperature (F): 82
 24 Hour Low Temperature (F): 64
 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)	7.6
Mill Creek, OK Screenings	60.0
Mill Creek, OK F Rock	40.0
Approximate Length (ft):	199
Survey Mill / Lift Thickness (in):	0.7
Type of Tack Coat Utilized:	67-22
Target Tack Application Rate (gal/sy):	0.05
Avg Temperature at Plant (F):	350
Avg Section Compaction:	93.8%

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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- 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).