

Quadrant: N
Section: 11
Sublot: 1

Laboratory DiaryGeneral Description of Mix and Materials

Design Method:	PEM
Compactive Effort:	50 blow
Binder Performance Grade:	76-22
Modifier Type:	SBS
Aggregate Type:	Granite
Design Gradation Type:	PEM

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":	96	92
3/8":	57	55
No. 4:	12	18
No. 8:	8	10
No. 16:	7	9
No. 30:	6	7
No. 50:	5	6
No. 100:	4	5
No. 200:	2.9	3.4
Asphalt Content:	6.0	5.3
Pill Bulk Gravity:	1.888	1.971
TMD (Rice):	2.407	2.443
Avg Air Voids:	21.6	19.3
Avg VMA:	32.5	28.4

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):	1.25
Paving Machine:	Roadtec

Plant Configuration and Placement Details

<u>Component</u>	<u>% Setting</u>
Asphalt Content (Plant Setting)	6.0
7 Lithia Springs Granite	81.0
89 Lithia Springs Granite	18.0
Hyd Lime	1.0
Cellulose	0.3
Approximate Length (ft):	195
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:	80.2%

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: 11
Sublot: 2

Laboratory DiaryGeneral Description of Mix and Materials

Design Method:	Super
Compactive Effort:	65 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":	99	99
3/8":	88	89
No. 4:	58	63
No. 8:	42	46
No. 16:	31	34
No. 30:	22	26
No. 50:	14	17
No. 100:	8	10
No. 200:	4.9	6.3
Asphalt Content:	5.3	5.3
Pill Bulk Gravity:	2.370	2.402
TMD (Rice):	2.469	2.498
Avg Air Voids:	4.0	3.8
Avg VMA:	16.1	15.0

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):	1.50
Paving Machine:	Roadtec

Plant Configuration and Placement Details

<u>Component</u>	<u>% Setting</u>
Asphalt Content (Plant Setting)	5.3
7 Columbus Granite	24.0
89 Columbus Granite	19.0
810 Columbus Granite	29.0
W10 Columbus Granite	27.0
Hyd Lime	1.0
Approximate Length (ft):	195
Survey Mill / Lift Thickness (in):	1.2
Type of Tack Coat Utilized:	67-22
Target Tack Application Rate (gal/sy):	0.05
Avg Temperature at Plant (F):	330
Avg Section Compaction:	95.3%

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;
- 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).