

Quadrant: N
Section: 10
Sublot: Surface

Laboratory Diary

General Description of Mix and Materials

Design Method: SMA
 Compactive Effort: 75 gyrations
 Binder Performance Grade: 70-22
 Modifier Type: SBS
 Aggregate Type: Lms/Chert
 Gradation Type: SMA

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":	90	95
3/8"	78	87
No. 4	20	30
No. 8	19	21
No. 16	16	17
No. 30	14	15
No. 50	12	14
No. 100	11	13
No. 200	8.0	11.5
Asphalt Content	6.4	6.2
Pill Bulk Gravity:		2.349
TMD (Rice):		2.454
Avg Air Voids		4.3
Avg VMA:		17

General Notes:

- 1) Mixes are referenced by quadrant (E=East, N=North, W=West, and S=South), section number (sequential) and sublot;
- 2) Sections are listed in the order they appear on the Track beginning with E2 and continuing counterclockwise to E1;
- 3) The total research thickness of all rutting study sections ranges from 3/4 to 4 inches by design;
- 4) The total HMA thickness of all structural study sections (N1 through N8) ranges from 5 to 9 inches by design;
- 5) ARZ, TRZ, and BRZ refer to gradations intended to pass above, through and below the restricted zone, respectively;
- 6) SMA and OGFC refer to stone matrix asphalt and open-graded friction course, respectively.

Construction Diary

Relevant Conditions for Construction

Completion Date: Friday, August 22, 2003
 24 Hour High Temperature (F): 88
 24 Hour Low Temperature (F): 67
 24 Hour Rainfall (in): 0
 Lift type: Surface
 Planned Mill / Lift Thickness (in): 2.0

Plant Configuration and Placement Details

<u>Component:</u>	<u>% Setting:</u>
Asphalt Content (Plant Setting)	6.5
1/2 D1 Girerdea Limestone	50.5
3/4 D1 Girerdea Limestone	10.3
Fenton Gravel Sand	13.2
Cape Girerdea Sand	16.0
Genevieve Mineral Filler	10.0
Approximate Length (ft):	246
Survey Mill / Lift Thickness (in):	2.0
Type of Tack Coat Utilized:	PG67-22
Target Tack Application Rate (gal/sy):	0.03
Avg Temperature In Truck (F):	334
Avg Section Compaction:	95.6

Quadrant: N
Section: 10
Sublot: Binder

Laboratory Diary

General Description of Mix and Materials

Design Method: SMA
 Compactive Effort: 75 gyrations
 Binder Performance Grade: 70-22
 Modifier Type: SBS
 Aggregate Type: Lms/Chert
 Gradation Type: SMA

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":	90	94
3/8"	78	84
No. 4	20	27
No. 8	19	18
No. 16	16	15
No. 30	14	13
No. 50	12	12
No. 100	11	11
No. 200	8.0	10.2
Asphalt Content	6.4	6.3
Pill Bulk Gravity:		2.290
TMD (Rice):		2.442
Avg Air Voids		6.2
Avg VMA:		19

General Notes:

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- 4) The total HMA thickness of all structural study sections (N1 through N8) ranges from 5 to 9 inches by design;
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- 6) SMA and OGFC refer to stone matrix asphalt and open-graded friction course, respectively.

Construction Diary

Relevant Conditions for Construction

Completion Date: Friday, August 01, 2003
 24 Hour High Temperature (F): 89
 24 Hour Low Temperature (F): 69
 24 Hour Rainfall (in): 0.17
 Lift type: Binder
 Planned Mill / Lift Thickness (in): 2.0

Plant Configuration and Placement Details

<u>Component:</u>	<u>% Setting:</u>
Asphalt Content (Plant Setting)	6.5
1/2 D1 Girerdea Limestone	50.5
3/4 D1 Girerdea Limestone	12.8
Fenton Gravel Sand	13.2
Cape Girerdea Sand	14.5
Genevieve Mineral Filler	9.0
Approximate Length (ft):	206
Survey Mill / Lift Thickness (in):	1.8
Type of Tack Coat Utilized:	PG67-22
Target Tack Application Rate (gal/sy):	0.03
Avg Temperature In Truck (F):	337
Avg Section Compaction:	97.5