

Section W7 (Lower Layer)

Laboratory Diary

General Description of Mix and Materials

Design Method: SMA
 Compactive Effort: 50 blows
 Binder Performance Grade: 76-22
 Modifier Type: SBR
 Aggregate Type: Limestone
 Gradation Type: SMA

Avg. Lab Properties of Plant Produced Mix

<u>Sieve Size:</u>	<u>% Passing:</u>
1"	100
3/4"	100
1/2"	96
3/8"	69
No. 4	22
No. 8	17
No. 16	14
No. 30	12
No. 50	12
No. 100	12
No. 200	10.9

Asphalt Binder Content: 5.9%
 Compacted Pill Bulk Gravity: 2.378
 Theoretical Maximum Gravity: 2.480
 Computed Air Voids: 4.1%

Construction Diary

Relevant Conditions for Construction

Completion Date: Wednesday, June 21, 2000
 24 Hour High Temperature (F): 91
 24 Hour Low Temperature (F): 72
 24 Hour Rainfall (in): 0.00
 Lift Type: dual
 Design Thickness of Test Mix (in): 4.0

Plant Configuration and Placement Details

<u>Component:</u>	<u>% Setting:</u>
Liquid Binder Setting	6.1%
Limestone	7 82.0%
Limestone	Modified 8910 11.0%
Stabilizer	Mineral Fiber 0.4%
Filler	Fly Ash 7.0%

Approximate Length (ft): 207
 Surveyed Thickness of Section (in): 4.2
 Std Dev of Section Thickness (in): 0.1
 Type of Tack Coat Utilized: CQS-1h
 Target Tack Application Rate: 0.03 gal / sy
 Avg Mat Temperature Behind Paver (F): 323
 Average Section Compaction: 93.5%

General Notes:

- 1) Mixes are listed chronologically in order of completion date (i.e., construction began with E2 and ended with E1).
- 2) Sections are referenced by quadrant and sequence number, where "E2" refers to section 2 of the east quadrant.
- 3) "dual " lift type indicates that the lower and upper lifts were constructed with the same experimental mix.
- 4) The total thickness of all experimental sections is 4 inches by design, with the exception of S8, S9, S10, S11.
- 5) ARZ, TRZ, and BRZ refer to gradations intended to pass above, through, and below the restricted zone.
- 6) SMA and OGFC refer to stone matrix asphalt and open-graded friction course, respectively.

Section W7 (Upper Layer)

Laboratory Diary

General Description of Mix and Materials

Design Method:	Proprietary
Compactive Effort:	NA
Binder Performance Grade	76-22
Modifier Type:	SB
Aggregate Type:	Granite
Gradation Type:	OGFC

Avg. Lab Properties of Plant Produced Mix

<u>Sieve Size:</u>	<u>% Passing:</u>
1"	100
3/4"	100
1/2"	95
3/8"	74
No. 4	32
No. 8	23
No. 16	18
No. 30	15
No. 50	12
No. 100	9
No. 200	5.9

Asphalt Binder Content:	4.8%
Compacted Pill Bulk Gravity:	NA
Theoretical Maximum Gravity:	NA
Computed Air Voids:	NA

Construction Diary

Relevant Conditions for Construction

Completion Date	Tuesday, April 02, 2002
24 Hour High Temperature (F):	82
24 Hour Low Temperature (F):	38
24 Hour Rainfall (in):	0.00
Lift Type:	
Design Thickness of Test Mix (in):	4.6

Plant Configuration and Placement Details

<u>Component:</u>	<u>% Setting:</u>
Liquid Binder Setting	5.3%
Granite	76.0%
Granite M10	24.0%

Approximate Length (ft):	207
Surveyed Thickness of Section (in):	NA
Std Dev of Section Thickness (in):	NA
Type of Tack Coat Utilized:	CRS-2p
Target Tack Application Rate:	0.2 gal/sy
Avg Mat Temperature Behind Paver (F):	303
Average Section Compaction:	NA

General Notes:

- 1) Mixes are listed chronologically in order of completion date (i.e., construction began with E2 and ended with E1).
- 2) Sections are referenced by quadrant and sequence number, where "E2" refers to section 2 of the east quadrant.
- 3) "dual " lift type indicates that the lower and upper lifts were constructed with the same experimental mix.
- 4) The total thickness of all experimental sections is 4 inches by design, with the exception of S8, S9, S10, S11.
- 5) ARZ, TRZ, and BRZ refer to gradations intended to pass above, through, and below the restricted zone.
- 6) SMA and OGFC refer to stone matrix asphalt and open-graded friction course, respectively.