

Section S8 (Lower Layer)

Laboratory Diary

General Description of Mix and Materials

Design Method:	Superpave
Compactive Effort:	100 gyrations
Binder Performance Grade:	67-22
Modifier Type:	NA
Aggregate Type:	Marble Schist
Gradation Type:	BRZ

Avg. Lab Properties of Plant Produced Mix

<u>Sieve Size:</u>	<u>% Passing:</u>
1"	100
3/4"	100
1/2"	87
3/8"	70
No. 4	39
No. 8	26
No. 16	18
No. 30	14
No. 50	12
No. 100	10
No. 200	7.1

Asphalt Binder Content:	3.7%
Compacted Pill Bulk Gravity:	2.598
Theoretical Maximum Gravity:	2.667
Computed Air Voids:	2.6%

Construction Diary

Relevant Conditions for Construction

Completion Date:	Friday, July 07, 2000
24 Hour High Temperature (F):	100
24 Hour Low Temperature (F):	79
24 Hour Rainfall (in):	0.00
Lift Type:	lower
Design Thickness of Test Mix (in):	2.0

Plant Configuration and Placement Details

<u>Component:</u>	<u>% Setting:</u>
Liquid Binder Setting	3.9%
Marble Schist 67	32.0%
Marble Schist 78M	41.0%
Marble Schist Manufactured	21.0%
Marble Schist Regular Scree	5.0%
Antistrip Hydrated Lime	1.0%

Approximate Length (ft):	197
Surveyed Thickness of Section (in):	NA
Std Dev of Section Thickness (in):	NA
Type of Tack Coat Utilized:	CQS-1h
Target Tack Application Rate:	0.03 gal / sy
Avg Mat Temperature Behind Paver (F):	331
Vibratory Roller Passes:	5
Rubber Tire Roller Passes:	
Static Wheel Roller Passes:	
Average Section Compaction:	93.8%

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 S8 (Upper Layer)

Laboratory Diary

General Description of Mix and Materials

Design Method:	Superpave
Compactive Effort:	100 gyrations
Binder Performance Grade:	76-22
Modifier Type:	SBS
Aggregate Type:	Marble Schist
Gradation Type:	BRZ

Avg. Lab Properties of Plant Produced Mix

<u>Sieve Size:</u>	<u>% Passing:</u>
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1"	100
3/4"	100
1/2"	100
3/8"	93
No. 4	58
No. 8	38
No. 16	25
No. 30	19
No. 50	15
No. 100	12
No. 200	7.8

Asphalt Binder Content:	4.2%
Compacted Pill Bulk Gravity:	2.576
Theoretical Maximum Gravity:	2.647
Computed Air Voids:	2.7%

Construction Diary

Relevant Conditions for Construction

Completion Date:	Saturday, July 08, 2000
24 Hour High Temperature (F):	103
24 Hour Low Temperature (F):	79
24 Hour Rainfall (in):	0.00
Lift Type:	upper
Design Thickness of Test Mix (in):	3.6

Plant Configuration and Placement Details

<u>Component:</u>	<u>% Setting:</u>
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Liquid Binder Setting	4.2%
Marble Schist 78M	49.0%
Marble Schist Manufactured	45.0%
Marble Schist Regular Scree	5.0%
Antistrip Hydrated Lime	1.0%

Approximate Length (ft):	197
Surveyed Thickness of Section (in):	3.8
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):	322
Vibratory Roller Passes:	3
Rubber Tire Roller Passes:	
Static Wheel Roller Passes:	2
Average Section Compaction:	91.8%

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.