

## Section W8

### 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:	Sandstone
Gradation Type:	SMA

#### Avg. Lab Properties of Plant Produced Mix

<u>Sieve Size:</u>	<u>% Passing:</u>
1"	100
3/4"	100
1/2"	99
3/8"	80
No. 4	33
No. 8	25
No. 16	22
No. 30	20
No. 50	18
No. 100	15
No. 200	12.9

Asphalt Binder Content:	7.5%
Compacted Pill Bulk Gravity:	2.272
Theoretical Maximum Gravity:	2.355
Computed Air Voids:	3.5%

### 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		7.0%
Limestone	7	30.0%
Slag	78	34.0%
Sand Stone	8	19.0%
Stabilizer	Mineral Fiber	0.4%
Filler	Fly Ash	8.0%
Sand Stone	Sand	9.0%

Approximate Length (ft):	197
Surveyed Thickness of Section (in):	4.0
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
Average Section Compaction:	94.5%

### **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.