

Section N4

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:	Lms/Slag
Gradation Type:	ARZ

Avg. Lab Properties of Plant Produced Mix

<u>Sieve Size:</u>	<u>% Passing:</u>
1"	100
3/4"	100
1/2"	99
3/8"	91
No. 4	68
No. 8	52
No. 16	35
No. 30	23
No. 50	15
No. 100	9
No. 200	6.0

Asphalt Binder Content:	6.8%
Compacted Pill Bulk Gravity:	2.296
Theoretical Maximum Gravity:	2.400
Computed Air Voids:	4.3%

Construction Diary

Relevant Conditions for Construction

Completion Date:	Thursday, May 18, 2000
24 Hour High Temperature (F):	85
24 Hour Low Temperature (F):	55
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	7.1%
Slag 78	32.0%
Slag 8910	28.0%
Limestone Manufactured Sand	40.0%

Approximate Length (ft):	199
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):	288
Average Section Compaction:	93.4%

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.