Quadrant: N Section: 13 Sublot: 1

Laboratory Diary

Construction Diary

General Description of Mix and Materials

Design Method:	Super
Compactive Effort:	65 gyrations
Binder Performance Grade:	64-22
Modifier Type:	NA
Aggregate Type:	Granite
Design Gradation Type:	DGA

Avg. Lab Properties of Plant Produced Mix

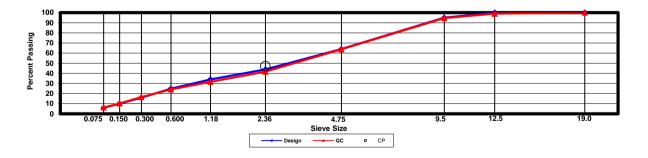
Sieve Size	<u>Target</u>	<u>QC</u>
25 mm (1"): 19 mm (3/4"): 12.5 mm (1/2"): 9.5 mm (3/8"): 4.75 mm (#4): 2.36 mm (#8): 1.18 mm (#16): 0.60 mm (#30): 0.30 mm (#50): 0.15 mm (#100): 0.075 mm (#200):	100 100 100 95 64 44 34 25 16 10	100 100 99 95 64 42 32 24 17 10 6.3
Binder Content (Pb): Eff. Binder Content (Pbe): Dust-to-Binder Ratio: Rice Gravity (Gmm): Avg. Bulk Gravity (Gmb): Avg Air Voids (Va): Agg. Bulk Gravity (Gsb): Avg VMA: Avg. VFA:	5.9 5.6 4.9 1.2 2.483 2.382 4.1 2.657 15.4 76	5.7 5.0 1.3 2.486 2.437 2.0 2.666 13.8 86

Relevant Conditions for Construction

Completion Date:	August 21, 2012
24 Hour High Temperature (F):	90
24 Hour Low Temperature (F):	70
24 Hour Rainfall (in):	0.00
Planned Subot Lift Thickness (in):	1.5
Paving Machine:	Roadtec

Plant Configuration and Placement Details

Component	% Setting
Binder Content (Plant Setting)	5.5
89 Columbus Granite 7 Columbus Granite W10 Columbus Granite 810 Columbus Granite	31.0 10.0 24.0 34.0
Hyd Lime	1.0
As-Built Sublot Lift Thickness (in): Total Thickness of All 2012 Sublots (in): Approx. Underlying HMA Thickness (in): Type of Tack Coat Utilized: Undilluted Target Tack Rate (gal/sy): Approx. Avg. Temperature at Plant (F): Avg. Measured Mat Compaction:	1.1 2.2 21.8 67-22 0.04 305 93.9%



General Notes:

- 1) Mixes are referenced by quadrant (E=East, N=North, W=West, S=South, L=Lee Rd 159), section number, and sublot (top=1);
- 2) SMA and OGFC refer to stone matrix asphalt and open-graded friction course, respectively; and
- 3) Mixes not containing hydrated lime were run with either Gripper X antistrip or Evotherm Q1 warm mix additive at a 0.5% rate

Quadrant: N Section: 13 Sublot: 2

Laboratory Diary

Construction Diary

Design Method:	OGI
Compactive Effort:	50 blow
Binder Performance Grade:	67-22
Modifier Type:	NA
Aggregate Type:	Granite
Design Gradation Type:	GAP

Avg. Lab Properties of Plant Produced Mix

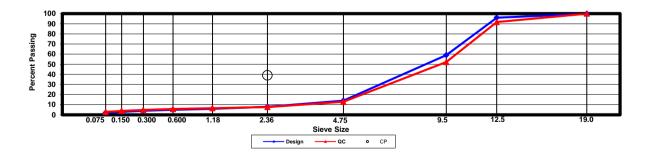
Sieve Size	<u>Target</u>	<u>QC</u>
25 mm (1"): 19 mm (3/4"): 12.5 mm (1/2"): 9.5 mm (3/8"): 4.75 mm (#4): 2.36 mm (#8): 1.18 mm (#16): 0.60 mm (#30): 0.30 mm (#50): 0.15 mm (#100):	100 100 96 59 14 8 6 5 4 3	100 100 92 52 13 8 7 6 5
0.075 mm (#200): Binder Content (Pb): Eff. Binder Content (Pbe): Dust-to-Binder Ratio: Rice Gravity (Gmm): Avg. Bulk Gravity (Gmb): Avg Air Voids (Va): Agg. Bulk Gravity (Gsb): Avg VMA: Avg. VFA:	2.0 4.5 3.9 0.5 2.528 1.967 22.2 2.672 29.7 25	2.9 4.6 4.0 0.7 2.544 1.862 26.8 2.695 34.1 21

Relevant Conditions for Construction

Completion Date:	August 20, 2012
24 Hour High Temperature (F):	84
24 Hour Low Temperature (F):	71
24 Hour Rainfall (in):	0.01
Planned Subot Lift Thickness (in):	1.1
Paving Machine:	Roadtec

Plant Configuration and Placement Details

Component	% Setting
Binder Content (Plant Setting)	4.5
7 Columbus Granite 89 Columbus Granite	91.1 7.9
Hyd Lime	1.0
As-Built Sublot Lift Thickness (in): Total Thickness of All 2012 Sublots (in): Approx. Underlying HMA Thickness (in): Type of Tack Coat Utilized: Undilluted Target Tack Rate (gal/sy): Approx. Avg. Temperature at Plant (F): Avg. Measured Mat Compaction:	1.2 2.2 21.8 67-22 0.04 280 78.5%



General Notes:

- 1) Mixes are referenced by quadrant (E=East, N=North, W=West, S=South, L=Lee Rd 159), section number, and sublot (top=1);
- 2) SMA and OGFC refer to stone matrix asphalt and open-graded friction course, respectively; and
- 3) Mixes not containing hydrated lime were run with either Gripper X antistrip or Evotherm Q1 warm mix additive at a 0.5% rate