

Quadrant: N
Section: 12
Sublot: 1

Laboratory 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	Target	QC
25 mm (1"):	100	100
19 mm (3/4"):	100	100
12.5 mm (1/2"):	100	99
9.5 mm (3/8"):	95	93
4.75 mm (#4):	64	64
2.36 mm (#8):	44	43
1.18 mm (#16):	34	32
0.60 mm (#30):	25	24
0.30 mm (#50):	16	16
0.15 mm (#100):	10	10
0.075 mm (#200):	5.9	6.1
Binder Content (Pb):	5.6	5.8
Eff. Binder Content (Pbe):	4.9	5.1
Dust-to-Binder Ratio:	1.2	1.2
Rice Gravity (Gmm):	2.483	2.490
Avg. Bulk Gravity (Gmb):	2.382	2.428
Avg Air Voids (Va):	4.1	2.5
Agg. Bulk Gravity (Gsb):	2.657	2.676
Avg VMA:	15.4	14.5
Avg. VFA:	76	83

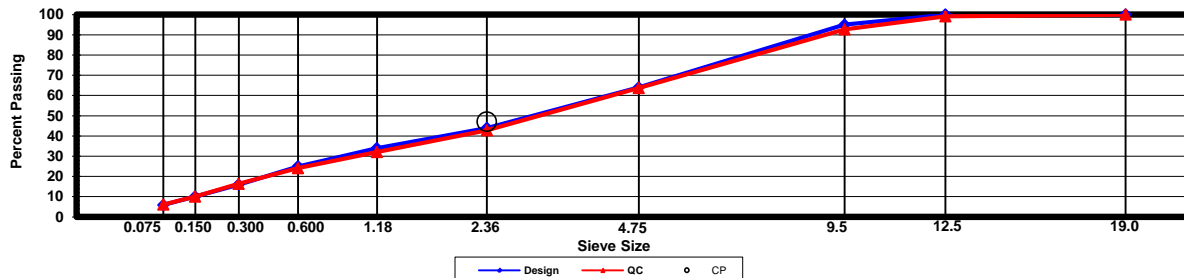
Construction Diary

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	31.0
7 Columbus Granite	10.0
W10 Columbus Granite	24.0
810 Columbus Granite	34.0
Hyd Lime	1.0
As-Built Sublot Lift Thickness (in):	1.5
Total Thickness of All 2012 Sublots (in):	2.2
Approx. Underlying HMA Thickness (in):	21.8
Type of Tack Coat Utilized:	NTSS-1HM
Undiluted Target Tack Rate (gal/sy):	0.05
Approx. Avg. Temperature at Plant (F):	305
Avg. Measured Mat Compaction:	93.7%



General Notes:

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