

Quadrant: S  
 Section: 3  
 Sublot: 1

**Laboratory Diary**

General Description of Mix and Materials

Design Method: 401-23  
 Compactive Effort: 50 gyrations  
 Binder Performance Grade: 67-22  
 Modifier Type: NA  
 Aggregate Type: Grv/RAP/Sand  
 Design Gradation Type: DGA

Avg. Lab Properties of Plant Produced Mix

Sieve Size	Target	QC
25 mm (1"):	:	100
19 mm (3/4"):	100	100
12.5 mm (1/2"):	100	100
9.5 mm (3/8"):	99	99
4.75 mm (#4):	83	86
2.36 mm (#8):	61	62
1.18 mm (#16):	46	46
0.60 mm (#30):	35	34
0.30 mm (#50):	17	17
0.15 mm (#100):	9	9
0.075 mm (#200):	7.5	6.4
Binder Content (Pb):	6.7	6.4
Eff. Binder Content (Pbe):	6.2	6.0
Dust-to-Binder Ratio:	1.2	1.1
Rice Gravity (Gmm):	2.347	2.360
Avg. Bulk Gravity (Gmb):	2.230	2.264
Avg Air Voids (Va):	5.0	4.1
Agg. Bulk Gravity (Gsb):	2.547	2.561
Avg VMA:	18.4	17.3
Avg. VFA:	73	76

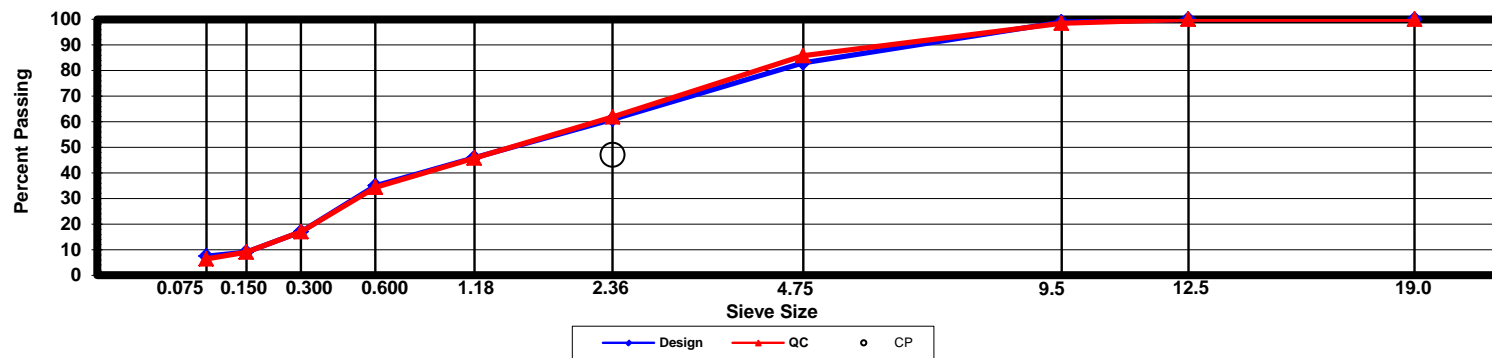
**Construction Diary**

Relevant Conditions for Construction

Completion Date: July 27, 2012  
 24 Hour High Temperature (F): 96  
 24 Hour Low Temperature (F): 73  
 24 Hour Rainfall (in): 0.00  
 Planned Sublot Lift Thickness (in): 1.0  
 Paving Machine: Roadtec

Plant Configuration and Placement Details

Component	% Setting
Binder Content (Plant Setting)	6.8
-3/8 Bailey Coarse Gravel	40.0
Bailey Crushed Fines	8.0
Bailey Coarse Sand	24.0
Blaine RAP	25.0
Hyd Lime	1.0
Holcim Cement	2.0
As-Built Sublot Lift Thickness (in):	1.5
Total Thickness of All 2012 Sublots (in):	1.5
Approx. Underlying HMA Thickness (in):	22.5
Type of Tack Coat Utilized:	NTSS-1HM
Undiluted Target Tack Rate (gal/sy):	0.06
Approx. Avg. Temperature at Plant (F):	325
Avg. Measured Mat Compaction:	94.2%



**General Notes:**

- 1) Mixes are referenced by quadrant (E=East, N=North, W=West, S=South, L=Lee Rd 159), section number, and subplot (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 antistriper or Evothrm Q1 warm mix additive at a 0.5% rate