

Quadrant: L
Section: 18
Sublot: 1

Laboratory Diary

General Description of Mix and Materials

Design Method: Super
 Compactive Effort: 75 gyrations
 Binder Performance Grade: 67-22
 Modifier Type: NA
 Aggregate Type: Lms/Sand
 Design Gradation Type: ARZ

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	100
9.5 mm (3/8"):	100	100
4.75 mm (#4):	99	98
2.36 mm (#8):	76	72
1.18 mm (#16):	53	50
0.60 mm (#30):	36	31
0.30 mm (#50):	23	16
0.15 mm (#100):	15	11
0.075 mm (#200):	11.5	8.4
Binder Content (Pb):	6.1	6.2
Eff. Binder Content (Pbe):	5.6	5.8
Dust-to-Binder Ratio:	2.0	1.4
Rice Gravity (Gmm):	2.441	2.449
Avg. Bulk Gravity (Gmb):	2.343	2.335
Avg Air Voids (Va):	4.0	4.7
Agg. Bulk Gravity (Gsb):	2.647	2.665
Avg VMA:	16.9	17.8
Avg. VFA:	76	74

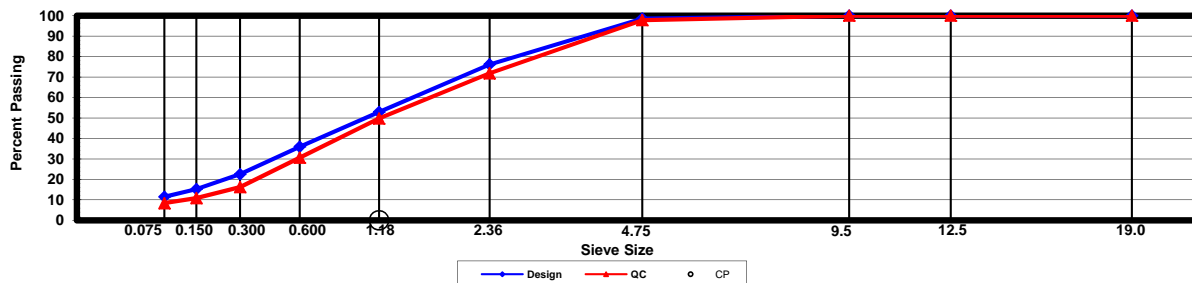
Construction Diary

Relevant Conditions for Construction

Completion Date: August 13, 2012
 24 Hour High Temperature (F): 89
 24 Hour Low Temperature (F): 61
 24 Hour Rainfall (in): 0.00
 Planned Subot Lift Thickness (in): 0.8
 Paving Machine: Blaw Knox

Plant Configuration and Placement Details

Component	% Setting
Binder Content (Plant Setting)	6.3
820 Calera Limestone	69.0
Shorter Coarse Sand	30.0
Hyd Lime	1.0
As-Built Sublot Lift Thickness (in):	NA
Total Thickness of All 2012 Sublots (in):	0.8
Approx. Underlying HMA Thickness (in):	5.6
Type of Tack Coat Utilized:	NTSS-1HM
Undiluted Target Tack Rate (gal/sy):	0.06
Approx. Avg. Temperature at Plant (F):	320
Avg. Measured Mat Compaction:	94.5%



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

Location: Lee Road 159
Section: 18

Pavement Preservation Treatment(s): HMA FiberMat Cape

<u>Inbound (Northbound) Lane</u>		<u>Outbound (Southbound) Lane</u>	
Crack Sealing Method:	N/A	Crack Sealing Method:	N/A
Placement Date:	N/A	Placement Date:	N/A
Sealant Material Source:	N/A	Sealant Material Source:	N/A
Sealant Material Type:	N/A	Sealant Material Type:	N/A
Width of Sealed Crack:	N/A	Width of Sealed Crack:	N/A
Target Rate (lbs / LF):	N/A	Target Rate (lbs / LF):	N/A
1st Treatment Applied:	89 FiberMat	1st Treatment Applied:	89 FiberMat
Placement Date:	7/17/2012	Placement Date:	7/17/2012
Emulsion Grade:	CRS-2L	Emulsion Grade:	CRS-2L
Target Emulsion Rate (GSY):	0	Target Rate (gals / SY):	0
Meas. Emulsion Rate (GSY):	N/A	Measured Rate (gals / SY):	N/A
Aggregate Type:	Granite	Aggregate Type:	Granite
Meas. Aggregate Rate (PSY):	Unknown	Meas. Agg. Rate (lbs / SY):	Unknown
2nd Treatment Applied:	N/A	2nd Treatment Applied:	N/A
Placement Date:	N/A	Placement Date:	N/A
Emulsion Grade:	N/A	Emulsion Grade:	N/A
Target Rate (gals / SY):	N/A	Target Rate (gals / SY):	N/A
Measured Rate (gals / SY):	N/A	Measured Rate (gals / SY):	N/A
Aggregate Type:	N/A	Aggregate Type:	N/A
Meas. Agg. Rate (lbs / SY):	N/A	Meas. Agg. Rate (lbs / SY):	N/A
3rd Treatment Applied:	N/A	3rd Treatment Applied:	N/A
Placement Date:	N/A	Placement Date:	N/A
Emulsion Grade:	N/A	Emulsion Grade:	N/A
Target Rate (gals / SY):	N/A	Target Rate (gals / SY):	N/A
Measured Rate (gals / SY):	N/A	Measured Rate (gals / SY):	N/A
Aggregate Type:	N/A	Aggregate Type:	N/A
Meas. Agg. Rate (lbs / SY):	N/A	Meas. Agg. Rate (lbs / SY):	N/A

General Notes:

- 1) Sections 5, 7, and 12 were the only ones to be crack sealed. Crack sealing was the only treatment in section 5;
- 2) Emulsion test results can be obtained by clicking the blue hotlinks in the "Emulsion Grade" data fields; and
- 3) All construction information is in draft form until reviewed and approved by Track research sponsors.

Draft