

Quadrant: S
Section: 4
Sublot: 1

Laboratory Diary

General Description of Mix and Materials

Design Method: Marshall
 Compactive Effort: 75 blows
 Binder Performance Grade: 67-22
 Modifier Type: NA
 Aggregate Type: Lms/Sand/F-RAP
 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	100
9.5 mm (3/8"):	100	100
4.75 mm (#4):	97	82
2.36 mm (#8):	55	52
1.18 mm (#16):	38	38
0.60 mm (#30):	27	27
0.30 mm (#50):	16	15
0.15 mm (#100):	12	10
0.075 mm (#200):	9.4	8.1
Binder Content (Pb):	6.8	6.4
Eff. Binder Content (Pbe):	4.9	4.7
Dust-to-Eff. Binder Ratio:	1.9	1.7
RAP Binder Replacement (%):	13.2	14.0
RAS Binder Replacement (%):	0.0	0.0
Total Binder Replacement (%):	13.2	14.0
Rice Gravity (Gmm):	2.414	2.424
Bulk Gravity (Gmb):	2.317	2.361
Air Voids (Va):	4.0	2.6
Agg. Bulk Gravity (Gsb):	2.534	2.55
VMA:	19.3	13
VFA:	79	81

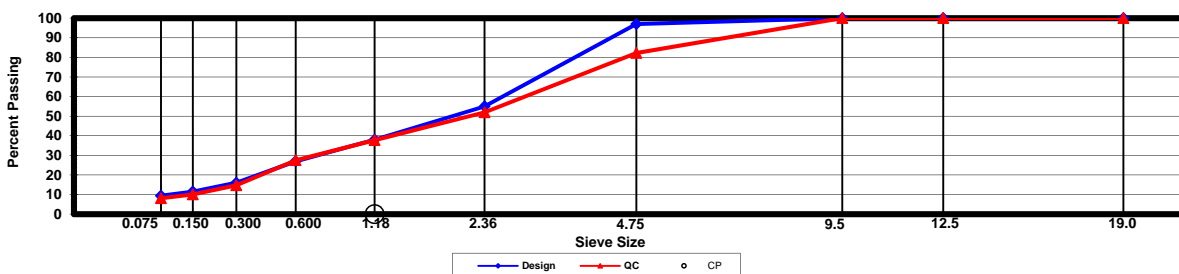
Construction Diary

Relevant Conditions for Construction

Completion Date: August 13, 2015
 24 Hour High Temperature (F): 94
 24 Hour Low Temperature (F): 65
 24 Hour Rainfall (in): 0.00
 Planned Sublot Lift Thickness (in): 1.3
 Paving Machine: Roadtec

Plant Configuration and Placement Details

Component	% Setting
Binder Content (Plant Setting)	6.2
Tennessee Hard 10s	60.0
Tennessee Soft 10s	10.0
Tennessee Sand	15.0
EAP Fine RAP	15.0
Evotherm P15	0.5
As-Built Sublot Lift Thickness (in):	1.5
Total Thickness of All New Sublots (in):	1.5
Approx. Underlying HMA Thickness (in):	22.5
Type of Tack Coat Utilized:	NTSS-1HM
Undiluted Target Tack Rate (gal/sy):	0.08
Approx. Avg. Temperature at Plant (F):	310
Avg. Measured Mat Compaction:	95.0%



General Notes:

- References are by quadrant (E=East, N=North, W=West, S=South, L=Lee Rd 159, U=US-280), section #, and sublot (top=1).
- DGA, SMA, & OGFC refer to dense graded asphalt, stone matrix asphalt, & open-graded friction course, respectively.
- Production Gsb estimated using the actual production Gse and the difference between Gse and Gsb in the mix design.

Section and/or Sublot Specific Notes:

NA