

Quadrant: U
Section: 37
Sublot: 1

Laboratory Diary

General Description of Mix and Materials

Design Method: Super
 Compactive Effort: 75 gyrations
 Binder Performance Grade: 67-22
 Modifier Type: Neat
 Aggregate Type: Lms/Sand/F-RAP/RAS
 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):	99	94
2.36 mm (#8):	76	68
1.18 mm (#16):	53	51
0.60 mm (#30):	36	36
0.30 mm (#50):	23	22
0.15 mm (#100):	15	15
0.075 mm (#200):	11.5	11.7
Binder Content (Pb):	6.1	5.8
Eff. Binder Content (Pbe):	5.6	5.4
Dust-to-Eff. Binder Ratio:	2.0	2.2
RAP Binder Replacement (%):	11.4	12.0
RAS Binder Replacement (%):	8.6	9.0
Total Binder Replacement (%):	20.0	21.0
Rice Gravity (Gmm):	2.441	2.477
Bulk Gravity (Gmb):	2.343	2.429
Air Voids (Va):	4.0	2.0
Agg. Bulk Gravity (Gsb):	2.647	2.68
VMA:	16.9	15
VFA:	76	87

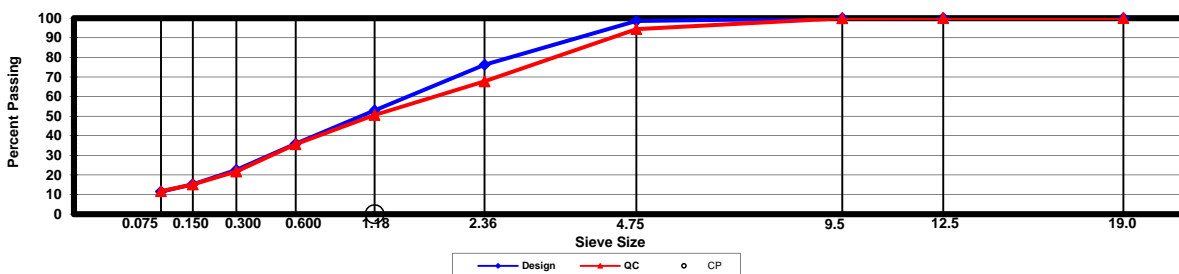
Construction Diary

Relevant Conditions for Construction

Completion Date: September 3, 2015
 24 Hour High Temperature (F): 93
 24 Hour Low Temperature (F): 71
 24 Hour Rainfall (in): 0.00
 Planned Sublot Lift Thickness (in): 0.8
 Paving Machine: Roadtec

Plant Configuration and Placement Details

Component	% Setting
Binder Content (Plant Setting)	5.6
Calera Limestone Screenings	60.0
Coarse Sand	26.0
EAP Fine RAP	11.0
EAP Post Consumer RAS	3.0
Evotherm P15	0.5
Hydrated Lime	1.0
As-Built Sublot Lift Thickness (in):	0.8
Total Thickness of All New Sublots (in):	1.1
Approx. Underlying HMA Thickness (in):	Pending
Type of Tack Coat Utilized:	NTSS-1HM
Undiluted Target Tack Rate (gal/sy):	0.05
Approx. Avg. Temperature at Plant (F):	335
Avg. Measured Mat Compaction:	93.0%



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

	Lift 1	
Location:		US 280
Section:		37
Pavement Preservation Treatment:		Chip Seal (89s)
Section Information:		
Placement Date:		8/27/2015
Emulsion/Tack Material:		CRS-1HP
Target Emulsion Rate (gal/SY):		0.34
Calibrated Emulsion Rate (gal/SY):		N.M.
Average Verified Emulsion Rate (gal/SY):		0.333
Aggregate Type:		Columbus Granite, 89s
Target Chip Rate (lb/SY):		16
Verified Chip Rates (lb/SY):		Found Below
Milled Depth:		1 1/4"
Left-Wheel Path:		
Placement Date:		8/27/2015
Emulsion/Tack Material:		CRS-1HP
Target Emulsion Rate (gal/SY):		0.34
Calibrated Emulsion Rate (gal/SY):		N.M.
Verified Emulsion Rate (gal/SY):		0.313
Aggregate Type:		Columbus Granite, 89s
Target Chip Rate (lb/SY):		16
Verified Chip Rate (lb/SY):		15
Between-Wheel Paths:		
Placement Date:		8/27/2015
Emulsion/Tack Material:		CRS-1HP
Target Emulsion Rate (gal/SY):		0.34
Calibrated Emulsion Rate (gal/SY):		N.M.
Verified Emulsion Rate (gal/SY):		0.332
Aggregate Type:		Columbus Granite, 89s
Target Chip Rate (lb/SY):		N/A
Verified Chip Rate (lb/SY):		N/A
Right-Wheel Path:		
Placement Date:		8/27/2015
Emulsion/Tack Material:		CRS-1HP
Target Emulsion Rate (gal/SY):		0.34
Calibrated Emulsion Rate (gal/SY):		N.M.
Verified Emulsion Rate (gal/SY):		0.355
Aggregate Type:		Columbus Granite, 89s
Target Chip Rate (lb/SY):		16
Verified Chip Rate (lb/SY):		15.5
Microsurface Information:		
Placement Date:		8/27/2015
Target Microsurface Rate (lb/SY):		N/A
Verified Microsurface Rate (lb/SY):		N/A
General Notes:		

	Lift 2	
Location:		US 280
Section:		37
Pavement Preservation Treatment:		ABR Thinlay
Section Information:		
Placement Date:		9/3/2015
Emulsion/Tack Material:		NTSS-1HM
Target Emulsion Rate (gal/SY):		0.05
Calibrated Emulsion Rate (gal/SY):		0.061
Average Verified Emulsion Rate (gal/SY):		N/A
Aggregate Type:		LMS + Sand
Target Chip Rate (lb/SY):		N/A
Verified Chip Rates (lb/SY):		Found Below
Milled Depth:		N/A
Left-Wheel Path:		
Placement Date:		9/3/2015
Emulsion/Tack Material:		NTSS-1HM
Target Emulsion Rate (gal/SY):		0.05
Calibrated Emulsion Rate (gal/SY):		0.061
Verified Emulsion Rate (gal/SY):		N/A
Aggregate Type:		LMS + Sand
Target Chip Rate (lb/SY):		N/A
Verified Chip Rate (lb/SY):		N/A
Between-Wheel Paths:		
Placement Date:		9/3/2015
Emulsion/Tack Material:		NTSS-1HM
Target Emulsion Rate (gal/SY):		0.05
Calibrated Emulsion Rate (gal/SY):		0.061
Verified Emulsion Rate (gal/SY):		N/A
Aggregate Type:		LMS + Sand
Target Chip Rate (lb/SY):		N/A
Verified Chip Rate (lb/SY):		N/A
Right-Wheel Path:		
Placement Date:		9/3/2015
Emulsion/Tack Material:		NTSS-1HM
Target Emulsion Rate (gal/SY):		0.05
Calibrated Emulsion Rate (gal/SY):		0.061
Verified Emulsion Rate (gal/SY):		N/A
Aggregate Type:		LMS + Sand
Target Chip Rate (lb/SY):		N/A
Verified Chip Rate (lb/SY):		N/A
Microsurface Information:		
Placement Date:		9/3/2015
Target Microsurface Rate (lb/SY):		N/A
Verified Microsurface Rate (lb/SY):		N/A
General Notes:		