

Quadrant: N
Section: 10
Sublot: 1

Laboratory Diary

General Description of Mix and Materials

Design Method: Super
 Compactive Effort: 80 gyrations
 Binder Performance Grade: 67-22
 Modifier Type: NA
 Aggregate Type: RAP/Sand/Grn
 Design Gradation Type: Fine

Avg. Lab Properties of Plant Produced Mix

| Sieve Size | Design | QC |
|----------------------------|--------|-------|
| 25 mm (1"): | 100 | 100 |
| 19 mm (3/4"): | 100 | 100 |
| 12.5 mm (1/2"): | 100 | 100 |
| 9.5 mm (3/8"): | 96 | 95 |
| 4.75 mm (#4): | 64 | 67 |
| 2.36 mm (#8): | 52 | 48 |
| 1.18 mm (#16): | 42 | 39 |
| 0.60 mm (#30): | 29 | 27 |
| 0.30 mm (#50): | 14 | 12 |
| 0.15 mm (#100): | 8 | 7 |
| 0.075 mm (#200): | 5.2 | 4.7 |
| Binder Content (Pb): | 6.2 | 6.0 |
| Eff. Binder Content (Pbe): | 5.5 | 5.2 |
| Dust-to-Binder Ratio: | 0.9 | 0.9 |
| Rice Gravity (Gmm): | 2.447 | 2.450 |
| Avg. Bulk Gravity (Gmb): | 2.349 | 2.356 |
| Avg Air Voids (Va): | 4.0 | 3.8 |
| Agg. Bulk Gravity (Gsb): | 2.636 | 2.631 |
| Avg VMA: | 16.4 | 15.8 |
| Avg. VFA: | 76 | 76 |

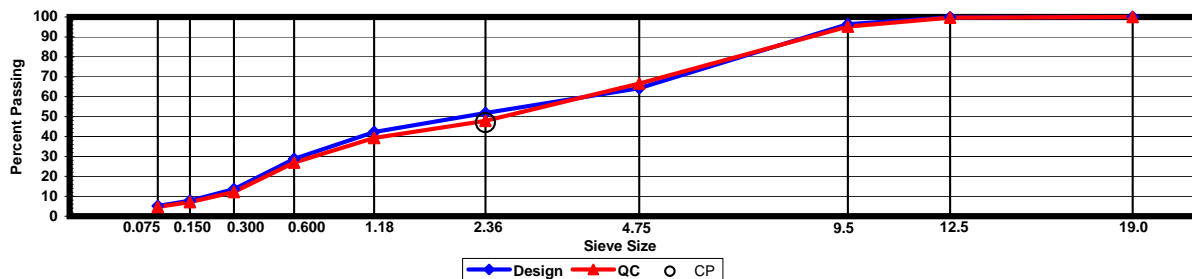
Construction Diary

Relevant Conditions for Construction

Completion Date: August 11, 2009
 24 Hour High Temperature (F): 95
 24 Hour Low Temperature (F): 76
 24 Hour Rainfall (in): 0.00
 Planned Sublot Lift Thickness (in): 1.3
 Paving Machine: Roadtec

Plant Configuration and Placement Details

| Component | % Setting |
|---|-----------|
| Asphalt Content (Plant Setting) | 5.6 |
| 89 Columbus Granite | 24.0 |
| Shorter Coarse Sand | 26.0 |
| Fine Fraction Local RAP | 15.0 |
| Coarse Fraction Local RAP | 35.0 |
| As-Built Sublot Lift Thickness (in): | 1.4 |
| Total Thickness of All 2009 Sublots (in): | 7.1 |
| Approx. Underlying HMA Thickness (in): | 0.0 |
| Type of Tack Coat Utilized: | PG67-22 |
| Target Tack Application Rate (gal/sy): | 0.05 |
| Approx. Avg. Temperature at Plant (F): | 325 |
| Avg. Measured Mat Compaction: | 92.6% |



General Notes:

- Mixes are referenced by quadrant (E=East, N=North, W=West, and S=South), section # (sequential) and subplot (top=1);
- The total HMA thickness of all structural study sections (N1-N11 and S8-S12) ranges from 5-3/4 to 14 inches by design;
- All non-structural sections are supported by a uniform perpetual foundation in order to study surface mix performance;
- SMA and OGFC refer to stone matrix asphalt and open-graded friction course, respectively; and
- All liquid asphalt purchased for use in Track reconstruction contained LOF 6500 antistripping additive at a rate of 0.5 percent

Quadrant: N
Section: 10
Sublot: 2

Laboratory Diary

General Description of Mix and Materials

Design Method: Super
 Compactive Effort: 80 gyrations
 Binder Performance Grade: 67-22
 Modifier Type: NA
 Aggregate Type: RAP/Lms/Sand
 Design Gradation Type: Fine

Avg. Lab Properties of Plant Produced Mix

| Sieve Size | Design | QC |
|----------------------------|--------|-------|
| 25 mm (1"): | 100 | 98 |
| 19 mm (3/4"): | 94 | 93 |
| 12.5 mm (1/2"): | 87 | 86 |
| 9.5 mm (3/8"): | 78 | 79 |
| 4.75 mm (#4): | 54 | 56 |
| 2.36 mm (#8): | 46 | 46 |
| 1.18 mm (#16): | 37 | 37 |
| 0.60 mm (#30): | 26 | 26 |
| 0.30 mm (#50): | 14 | 13 |
| 0.15 mm (#100): | 8 | 8 |
| 0.075 mm (#200): | 5.1 | 5.6 |
| Binder Content (Pb): | 4.8 | 4.4 |
| Eff. Binder Content (Pbe): | 4.2 | 3.8 |
| Dust-to-Binder Ratio: | 1.2 | 1.5 |
| Rice Gravity (Gmm): | 2.542 | 2.552 |
| Avg. Bulk Gravity (Gmb): | 2.440 | 2.436 |
| Avg Air Voids (Va): | 4.0 | 4.5 |
| Agg. Bulk Gravity (Gsb): | 2.698 | 2.695 |
| Avg VMA: | 13.9 | 13.6 |
| Avg. VFA: | 72 | 67 |

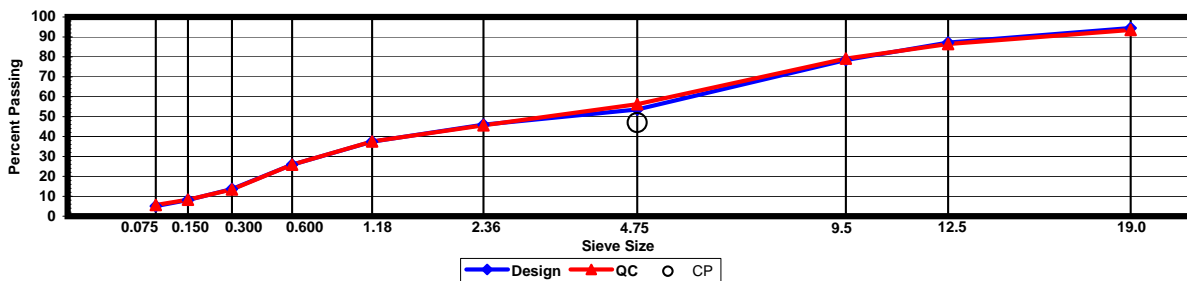
Construction Diary

Relevant Conditions for Construction

Completion Date: August 4, 2009
 24 Hour High Temperature (F): 94
 24 Hour Low Temperature (F): 73
 24 Hour Rainfall (in): 0.00
 Planned Sublot Lift Thickness (in): 2.8
 Paving Machine: Roadtec

Plant Configuration and Placement Details

| Component | % Setting |
|---|-----------|
| Asphalt Content (Plant Setting) | 5.8 |
| 78 Opelika Limestone | 15.0 |
| 57 Opelika Limestone | 15.0 |
| Shorter Coarse Sand | 20.0 |
| Fine Fraction Local RAP | 20.0 |
| Coarse Fraction Local RAP | 30.0 |
| As-Built Sublot Lift Thickness (in): | 2.7 |
| Total Thickness of All 2009 Sublots (in): | 7.1 |
| Approx. Underlying HMA Thickness (in): | 0.0 |
| Type of Tack Coat Utilized: | NTSS-1HM |
| Target Tack Application Rate (gal/sy): | 0.05 |
| Approx. Avg. Temperature at Plant (F): | 325 |
| Avg. Measured Mat Compaction: | 92.9% |



General Notes:

- 1) Mixes are referenced by quadrant (E=East, N=North, W=West, and S=South), section # (sequential) and subplot (top=1);
- 2) The total HMA thickness of all structural study sections (N1-N11 and S8-S12) ranges from 5-3/4 to 14 inches by design;
- 3) All non-structural sections are supported by a uniform perpetual foundation in order to study surface mix performance;
- 4) SMA and OGFC refer to stone matrix asphalt and open-graded friction course, respectively; and
- 5) All liquid asphalt purchased for use in Track reconstruction contained LOF 6500 antistripping additive at a rate of 0.5 percent

Quadrant: N
Section: 10
Sublot: 3

Laboratory Diary

General Description of Mix and Materials

Design Method: Super
 Compactive Effort: 80 gyrations
 Binder Performance Grade: 67-22
 Modifier Type: NA
 Aggregate Type: RAP/Lms/Sand
 Design Gradation Type: Fine

Avg. Lab Properties of Plant Produced Mix

| Sieve Size | Design | QC |
|----------------------------|--------|-------|
| 25 mm (1"): | 100 | 99 |
| 19 mm (3/4"): | 94 | 95 |
| 12.5 mm (1/2"): | 87 | 89 |
| 9.5 mm (3/8"): | 78 | 82 |
| 4.75 mm (#4): | 54 | 58 |
| 2.36 mm (#8): | 46 | 47 |
| 1.18 mm (#16): | 37 | 39 |
| 0.60 mm (#30): | 26 | 27 |
| 0.30 mm (#50): | 14 | 14 |
| 0.15 mm (#100): | 8 | 9 |
| 0.075 mm (#200): | 5.1 | 5.8 |
| Binder Content (Pb): | 4.8 | 4.7 |
| Eff. Binder Content (Pbe): | 4.2 | 4.1 |
| Dust-to-Binder Ratio: | 1.2 | 1.4 |
| Rice Gravity (Gmm): | 2.542 | 2.537 |
| Avg. Bulk Gravity (Gmb): | 2.440 | 2.431 |
| Avg Air Voids (Va): | 4.0 | 4.2 |
| Agg. Bulk Gravity (Gsb): | 2.698 | 2.688 |
| Avg VMA: | 13.9 | 13.8 |
| Avg. VFA: | 72 | 70 |

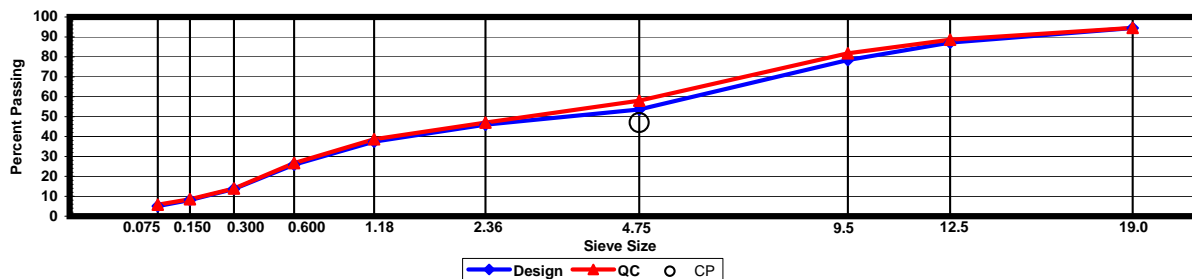
Construction Diary

Relevant Conditions for Construction

Completion Date: August 4, 2009
 24 Hour High Temperature (F): 94
 24 Hour Low Temperature (F): 73
 24 Hour Rainfall (in): 0.00
 Planned Subot Lift Thickness (in): 3.0
 Paving Machine: Roadtec

Plant Configuration and Placement Details

| Component | % Setting |
|---|-----------|
| Asphalt Content (Plant Setting) | 5.8 |
| 78 Opelika Limestone | 15.0 |
| 57 Opelika Limestone | 15.0 |
| Shorter Coarse Sand | 20.0 |
| Fine Fraction Local RAP | 20.0 |
| Coarse Fraction Local RAP | 30.0 |
| As-Built Sublot Lift Thickness (in): | 3.0 |
| Total Thickness of All 2009 Sublots (in): | 7.1 |
| Approx. Underlying HMA Thickness (in): | 0.0 |
| Type of Tack Coat Utilized: | NA |
| Target Tack Application Rate (gal/sy): | NA |
| Approx. Avg. Temperature at Plant (F): | 325 |
| Avg. Measured Mat Compaction: | 95.0% |



General Notes:

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