Quadrant: U  
Section: 6  
Sublot: 1

**Laboratory Diary**

- **Design Method:** Super  
- **Compactive Effort:** 75 gyrations  
- **Binder Performance Grade:** 76-22  
- **Modifier Type:** SBS  
- **Aggregate Type:** Lms Scms/Sand  
- **Design Gradation Type:** DGA  

### Avg. Lab Properties of Plant Produced Mix

<table>
<thead>
<tr>
<th>Sieve Size (in)</th>
<th>Target %</th>
<th>QC %</th>
<th>Setting</th>
</tr>
</thead>
<tbody>
<tr>
<td>25 mm (1&quot;)</td>
<td>100</td>
<td>100</td>
<td></td>
</tr>
<tr>
<td>19 mm (3/4&quot;)</td>
<td>100</td>
<td>100</td>
<td></td>
</tr>
<tr>
<td>12.5 mm (1/2&quot;)</td>
<td>100</td>
<td>100</td>
<td></td>
</tr>
<tr>
<td>9.5 mm (3/8&quot;)</td>
<td>100</td>
<td>100</td>
<td></td>
</tr>
<tr>
<td>4.75 mm (#4)</td>
<td>99</td>
<td>97</td>
<td></td>
</tr>
<tr>
<td>2.36 mm (#8)</td>
<td>76</td>
<td>74</td>
<td></td>
</tr>
<tr>
<td>1.18 mm (#16)</td>
<td>53</td>
<td>55</td>
<td></td>
</tr>
<tr>
<td>0.60 mm (#30)</td>
<td>36</td>
<td>36</td>
<td></td>
</tr>
<tr>
<td>0.30 mm (#50)</td>
<td>23</td>
<td>21</td>
<td></td>
</tr>
<tr>
<td>0.15 mm (#100)</td>
<td>15</td>
<td>14</td>
<td></td>
</tr>
<tr>
<td>0.075 mm (#200)</td>
<td>11.5</td>
<td>10.8</td>
<td></td>
</tr>
</tbody>
</table>

- **Binder Content (Plant Setting):** 6.0%
- **Evotherm P15:** 0.5
- **Hydrated Lime:** 1.0

<table>
<thead>
<tr>
<th>Component</th>
<th>% Setting</th>
</tr>
</thead>
<tbody>
<tr>
<td>Binder Content (Plant Setting)</td>
<td>6.0</td>
</tr>
<tr>
<td>Calera Limestone Screenings</td>
<td>50.0</td>
</tr>
<tr>
<td>Coarse Sand</td>
<td>30.0</td>
</tr>
<tr>
<td>Opelika Limestone Screenings</td>
<td>19.0</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Component</th>
<th>% Setting</th>
</tr>
</thead>
<tbody>
<tr>
<td>Binder Content (Pbe)</td>
<td>5.6</td>
</tr>
<tr>
<td>Dust-to-Eff. Binder Ratio</td>
<td>2.0</td>
</tr>
<tr>
<td>RAP Binder Replacement (%)</td>
<td>0.0</td>
</tr>
<tr>
<td>RAS Binder Replacement (%)</td>
<td>0.0</td>
</tr>
<tr>
<td>Total Binder Replacement (%)</td>
<td>0.0</td>
</tr>
</tbody>
</table>

- **Binder Content (Pb):** 6.1%
- **Eff. Binder Content (Pbe):** 5.6%
- **Dust-to-Eff. Binder Ratio:** 2.0
- **RAP Binder Replacement (%)** 0.0
- **RAS Binder Replacement (%)** 0.0
- **Total Binder Replacement (%)** 0.0

### Construction Diary

- **Completion Date:** August 24, 2015
- **24 Hour High Temperature (F):** 92
- **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

- **As-Built Sublot Lift Thickness (in):** 0.8
- **Total Thickness of All New Sublots (in):** 0.8
- **Approx. Underlying HMA Thickness (in):** Pending
- **Type of Tack Coat Utilized:** NTSS-1HM
- **Undiluted Target Tack Rate (gal/sq yd):** 0.08
- **Approx. Avg. Temperature at Plant (F):** 340
- **Avg. Measured Mat Compaction:** 93.6%

### 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