NORTH CAROLINA
Department of Transportation

2019 CAPA / NCDOT Asphalt Pavement Workshop

Tim Little, PE
NCDOT Chief Engineer

February 22, 2019
### NCDOT’s Paving Program for FY 2020 (Statewide Totals)

<table>
<thead>
<tr>
<th>Program</th>
<th>Estimated Costs</th>
<th>Planned Lane Miles</th>
</tr>
</thead>
<tbody>
<tr>
<td>Preservation</td>
<td>$85,621,053</td>
<td>5,497</td>
</tr>
<tr>
<td>Resurfacing</td>
<td>$496,982,335</td>
<td>5,824</td>
</tr>
</tbody>
</table>
Twelve Month Project - Contract Value by $ (Feb '19 – Jan '20)

<table>
<thead>
<tr>
<th>Category Total ($M)</th>
<th>Feb</th>
<th>Mar</th>
<th>Apr</th>
<th>May</th>
<th>Jun</th>
<th>Jul</th>
<th>Aug</th>
<th>Sep</th>
<th>Oct</th>
<th>Nov</th>
<th>Dec</th>
<th>Jan</th>
</tr>
</thead>
<tbody>
<tr>
<td>Division Let Projects</td>
<td>$10</td>
<td>$21</td>
<td>$5</td>
<td>$17</td>
<td>$21</td>
<td>$3</td>
<td>$4</td>
<td>$15</td>
<td>$9</td>
<td>$3</td>
<td>$16</td>
<td>$19</td>
</tr>
<tr>
<td>Central &amp; Div Bridges</td>
<td>$10</td>
<td>$17</td>
<td>$28</td>
<td>$31</td>
<td>$22</td>
<td>$2</td>
<td>$2</td>
<td>$26</td>
<td>$45</td>
<td>$3</td>
<td>$8</td>
<td>$66</td>
</tr>
<tr>
<td>TIP Projects</td>
<td>$233</td>
<td>$76</td>
<td>$170</td>
<td>$299</td>
<td>$241</td>
<td>$244</td>
<td>$9</td>
<td>$401</td>
<td>$288</td>
<td>$31</td>
<td>$64</td>
<td>$179</td>
</tr>
<tr>
<td>Design Build</td>
<td>$167</td>
<td>$162</td>
<td>$419</td>
<td>$212</td>
<td>$433</td>
<td>$87</td>
<td></td>
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</tr>
<tr>
<td>Accumulative</td>
<td>$420</td>
<td>$534</td>
<td>$899</td>
<td>$1,665</td>
<td>$2,161</td>
<td>$2,843</td>
<td>$2,858</td>
<td>$3,387</td>
<td>$3,729</td>
<td>$3,766</td>
<td>$3,994</td>
<td>$4,258</td>
</tr>
</tbody>
</table>

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Program Delivery – Expectations

- Safety is our top priority.
- Work Together
- High Quality Projects
- On time or Early Completion
- Minimize Impacts to the Travelling Public
Safety

- From 2003 – 2015, 1,571 road construction workers lost their lives, averaging about 120 per year.
- Watch out for each other.
- Be mindful of distracted drivers.
- Analyze job site hazards.
- Continually reassess hazards throughout the day’s operations.
Safety Focus

- Slips, Trips and Falls make up the highest percentage of employee injuries.
  - Check walking surface conditions for loose material, especially when entering or exiting vehicles and equipment
  - Monitor surfaces as conditions change due to weather and other conditions.
US 64 and NC Zoo Connector in Division 8

- 14.6 Miles of controlled access roadway
- 1.8 Mile NC Zoo Connector
- 6 Interchanges
- 7 Grade Crossings
- 23 Bridges
- Aesthetics
US 64 and NC Zoo Connector in Division 8

- Awarded June 2015
- Bid Amount = $244,350,000
- Randolph County Resident Engineer’s Office
- Asheboro Bypass Constructors, LLC
  - Design / Utility Coordination: RK&K
  - Construction: Joint Venture
    with APAC Thompson – Arthur Division and Wright Brothers
US 64 and NC Zoo Connector

Project Quantities

• 500,000 tons of stone base
• 700,000 tons of asphalt
• 50,000 cubic yards of concrete

Asphalt = A line of Elephants stretching 397 miles long

Stone = 100,000 Elephants

Average Elephant = 5 Tons & 15' long
Minimizing Impacts to the Public – I-40/I-85 Resurfacing with Friction Course

- Division 7 – Graham and Greensboro Resident Engineer Offices
- APAC Thompson – Arthur Division
I-40/440 Design-Build in Division 5 (Fortify)

- Division 5, District Drive Resident Engineer’s Office
- The Design-Build Team:
  - Construction: Granite Construction Company
  - Design: RS&H
Challenge — Working Together

- Plan the work and communicate the plan.
- Promptly respond to each other.
- Develop an escalation plan.
Challenge – Working Together

- Communication is key.
- Work together to solve project issues.
- Minimize impacts to the Public.
- Look for ways to improve.
Thank you.