District Performance – as reported in Dashboard 3.0
(as of April 19, 2018)

<table>
<thead>
<tr>
<th>Fiscal Year</th>
<th>VDOT Advertisement Goal: 70%</th>
<th>Local Advertisement Goal: 70%</th>
<th>VDOT Cost Estimate Goal: 74%</th>
</tr>
</thead>
<tbody>
<tr>
<td>2018</td>
<td>83%</td>
<td>76%</td>
<td>87%</td>
</tr>
<tr>
<td>2017</td>
<td>88%</td>
<td>86%</td>
<td>89%</td>
</tr>
<tr>
<td>2016</td>
<td>91%</td>
<td>72%</td>
<td>89%</td>
</tr>
<tr>
<td>2015</td>
<td>69%</td>
<td>64%</td>
<td>88%</td>
</tr>
<tr>
<td>2014</td>
<td>53%</td>
<td>40%</td>
<td>79%</td>
</tr>
<tr>
<td>2013</td>
<td>50%</td>
<td>56%</td>
<td>67%</td>
</tr>
</tbody>
</table>
Dashboard 4.0 will provide an enhanced user experience and more refined data analysis of key transportation performance measures.
Upcoming Advertisements (through June 2019)

VDOT Administered – $87 Million

**Highlights:**

- Cedar Level Road - Widening, City of Hopewell
  - $8.0 Million

- Rte. 64 - Replace Bridges over Rte. 156, Henrico County
  - $26.6 Million

- Rte. 1 – Add Traffic Signal and Turn Lanes, Chesterfield County
  - $4.3 Million
Upcoming Advertisements (through June 2019)
Locally Administered – $99.3 Million

Highlights:

• Rte. 10 Bermuda Triangle Road – (Road Widenings and Intersection Improvements), Chesterfield County
  • $42.5 Million

• Jahnke Road – Two Lane Improvements, City of Richmond
  • $10.5 Million

• Forest Hill Avenue – Improvements, City of Richmond
  • $8.7 Million
Upcoming Environmental Procurements

• Upcoming Environmental Statewide On-Call Contract Procurements, Approximate RFP Advertisement Dates
  
  • Statewide Non-Professional Services Wetlands and Stream Maintenance & Monitoring and Related Services (Summer 2018)
  
  • Statewide Hazardous Materials and Related Services (Fall 2018)
Upcoming Environmental Procurements

All VDOT procurements are advertised through eVA, Virginia’s electronic procurement system.

## SMART SCALE Round 3 (FY20-25) SCHEDULE

<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>March 1</td>
<td>SMART SCALE Portal Opened for submission of basic information</td>
</tr>
<tr>
<td>May – June</td>
<td>Pre-screening for VTrans and eligibility</td>
</tr>
<tr>
<td>June 1</td>
<td><strong>Deadline for creation of an application</strong></td>
</tr>
<tr>
<td>June – July</td>
<td>Application Refinement</td>
</tr>
<tr>
<td>August 1</td>
<td><strong>Application deadline; applications must be completed</strong></td>
</tr>
<tr>
<td>August – December</td>
<td>Validation by Districts, DRPT, and CO; scoring QA/QC by CO and consultants</td>
</tr>
</tbody>
</table>
# SMART SCALE Round 3 (FY20-25) SCHEDULE

<table>
<thead>
<tr>
<th>2019</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>January</td>
<td>Scores announced at CTB with initial staff draft scenario</td>
</tr>
<tr>
<td>February – April</td>
<td>CTB considers evaluated projects for inclusion in FFY20-25 SYIP</td>
</tr>
<tr>
<td>March – April</td>
<td>SYIP Public Hearings to gather input on draft scenario</td>
</tr>
<tr>
<td>April</td>
<td>Draft FFY20-25 SYIP released</td>
</tr>
<tr>
<td>June</td>
<td><strong>CTB approves final FY20-25 SYIP</strong></td>
</tr>
<tr>
<td>July 1</td>
<td>FY19 begins; lessons learned from prior rounds (July – December)</td>
</tr>
</tbody>
</table>
2018 Richmond District Dialogue

Rte. 5 Bridge Replacement – City of Richmond
Wagman, Inc.
As of April 1, 2018, Richmond District had **55 Active Projects** with a Contract Value of **$275,065,419.**
Richmond District has averaged the 2nd most active projects (64) in the state from 2015 to present. Salem District averaged 66.
2018 Richmond District Dialogue

Temple Avenue Roundabout – City of Colonial Heights
Allan Myers
2018 ASHE National Project of the Year in the Under $20 Million Category
2018 Richmond District Dialogue
Projected Workload

Richmond District has/will let:

• Jan 24 – 11 projects - $37.6M
• Feb 14 – 3 projects - $7.7M
• Feb 28 – 4 projects - $14.7M
• Mar 28 – 3 projects - $3.5M
• Apr 25 – 5 projects - $8.9M
• May 23 – 1 project - $5.7M

27 additional projects worth $78.1M
2018 Richmond District Dialogue

Route 360 and Bell Creek Road– Hanover County
J.L. Kent & Sons, Inc.
Current VDOT Staffing:

- **1 Mega Projects Engineer**
- **3 ACEs** (1 North, 1 Central, 1 South)
- **14 CMs** (4 North, 7 Central, 3 South)
- **47 Inspectors** (20 North, 15 Central, 12 South) (11 Permits/7 Trainee)

*As of 4/27/18, Operations projects fall under Central Region*
Route 249 Roundabout – New Kent County
Howard Brothers Contractor, Inc.
Current Consultant Contracts:

- 42087 – RK&K – Expired 10/3/17 (Completing some tasks)
- 43134 – AMT – Expired 12/11/17 (Completing some tasks)
- 43163 – RK&K – Expires 9/18/18
- 43240 – Jacobs – Expires 10/13/18
- 45056 – AMT – Expires 7/27/19
Currently Negotiating Consultant Contracts:

- AMT
- RK&K
- Alpha Corporation

These should be executed in May/June timeframe
Lewistown Road over I-95 – Hanover County
English Construction Co., Inc.
Additional required staffing will come from Consultant CEI Contracts:

- 2 Construction Managers
- 3 Administrative Assistants
- 30 Senior Inspectors
- 15 Regular Inspectors
- 5 Trainee Inspectors

*Based on projections as of April 18, 2018, does not include Operations.
2018 Richmond District Dialogue

2018 Projected Consultant CEI Staff

*Based on projections as of April 18, 2018, does not include Operations
2018 Richmond District Dialogue

Route 460 over NS – Nottoway County
Curtis Contracting, Inc.
# 2018 Richmond District Dialogue

## Dashboard Results

<table>
<thead>
<tr>
<th>Year</th>
<th># of Projects</th>
<th>Value</th>
<th>On-Time</th>
<th>On-Budget</th>
<th>CQIP</th>
</tr>
</thead>
<tbody>
<tr>
<td>FY12</td>
<td>52</td>
<td>$155M</td>
<td>50%</td>
<td>85%</td>
<td>90.2%</td>
</tr>
<tr>
<td>FY13</td>
<td>59</td>
<td>$163M</td>
<td>71%</td>
<td>92%</td>
<td>91.3%</td>
</tr>
<tr>
<td>FY14</td>
<td>53</td>
<td>$139M</td>
<td>70%</td>
<td>92%</td>
<td>91.4%</td>
</tr>
<tr>
<td>FY15</td>
<td>46</td>
<td>$146M</td>
<td>78%</td>
<td>96%</td>
<td>94.3%</td>
</tr>
<tr>
<td>FY16</td>
<td>71</td>
<td>$247M</td>
<td>72%</td>
<td>99%</td>
<td>94.8%</td>
</tr>
<tr>
<td>FY17</td>
<td>51</td>
<td>$188M</td>
<td>80%</td>
<td>94%</td>
<td>95.1%</td>
</tr>
<tr>
<td>FY18</td>
<td>53*</td>
<td>$217M*</td>
<td>83%*</td>
<td>89%*</td>
<td>94.7%*</td>
</tr>
<tr>
<td>FY19</td>
<td>27*</td>
<td>$86M*</td>
<td>100%*</td>
<td>89%*</td>
<td>---</td>
</tr>
</tbody>
</table>

*As of April 24, 2018
Questions?

Shane Mann, P.E.
(804) 720-4229 (cell)
Shane.Mann@VDOT.Virginia.Gov
STEVEN MCNEELY
District Maintenance Engineer

May 2, 2018
Richmond District Pavement Condition Summary

2018 Interstate Pavement Condition

- **Total Rated Lane Miles = 1311.33***
- **Deficient Lane Miles = 120.84**
- **% Sufficiency = 90.76%**
- **% Deficient = 9.24%**
- **Average CCI = 84 [Good]**

- **District meets the goal of 82.5% sufficiency for all IS Pavement**

- **Total Lane Miles to be paved in CY 2018 = 50 [Inc. Ramps]**
- **Work planned on all “Very Poor” pavements (CCI<35)**
Richmond District Pavement Condition Summary
2017 Primary Pavement Condition

Total Rated Lane Miles = 3358.19*
Deficient Lane Miles = 566.78
% Sufficiency = 83.1%
% Deficient = 16.9%
Average CCI = 79 [Good]

*Largest in the state

✓ District meets the goal of 82.5% sufficiency for all Primary Pavement

Total lane miles to be paved in CY 2018 = 315

*2018 Condition Data Not Available
Richmond District Pavement Condition Summary
2017 Secondary Pavement Condition

*2018 Condition Data Not Available

*Largest in the state

Total Rated Lane Miles = 12713*
Deficient Lane Miles = 5137.77
% Sufficiency = 59.6%
% Deficient = 40.4%
Average CCI = 64 [Fair]

× District doesn’t meet the goal of 65% sufficiency for all Secondary Pavement

Total lane miles to be paved in CY 2018 = 923
2018 Richmond District Paving Program Summary

2018 INTERSTATE SYSTEM PAVING BREAKDOWN

- TE Items: $1.32M
- Concrete Items: $1.38M  
  Note: 7200 SY of Concrete Patching to be performed
- Asphalt Items: $8.29M  
  Note: 77K Tons of Asphalt to be placed
- Total Contract Value: $12.80M

4 Contracts Awarded; IS 85, 95 & 64 Corridor; 50 Lane Miles of Paving
2018 Richmond District Paving Program Summary

2018 PRIMARY SYSTEM PAVING BREAKDOWN

- **Concrete Items**: $1.92M  
  Note: 12K SY of Concrete Patching to be performed
- **TE Items**: $2.50M
- **Latex + MSS + Crack Seal**: $2.82M  
  Note: 11K Tons of Latex to be placed
- **Asphalt Items**: $20.94M  
  Note: 225 Tons of Asphalt to be placed

**Total Contract Value**: $29.48M

*6 Contracts Awarded; 1 Latex & 5 Plant Mix; 315 Lane Miles of Paving*
2018 Richmond District Paving Program Summary

**2018 SECONDARY SYSTEM PAVING BREAKDOWN**

- **Slurry Seal**: $1.30M  
  Note: 688K SY of Slurry Seal to be placed
- **TE Items**: $1.21M
- **Surface Treatment**: $6.33M  
  Note: 3.5M SY of Surface Treatment to be placed
- **Asphalt Items**: $11.33M  
  Note: 148K Tons of Asphalt to be placed
- **Total Contract Value**: $22.07M

8 Contracts Awarded; 4 ST, 1 Slurry & 3 PM; 923 Lane Miles of Paving
2018 Richmond District Paving Program Summary

- **18** Contracts Awarded, Total Contract Value = **$64.5M**
- Total of **1333 Lane Miles** to be paved in CY 2018
- Construction Engineering Inspection Services (CEI) Budget = **$3.2M**
- Contingencies, Contract Requirements & State Police Budget = **$4.4M**

In addition, currently advertised, **3 On-Call Paving Contracts**, **$1.5M** in Contract Value, 7K Tons of Asphalt
2019 PAVING PROGRAM [Tentative]

~$70M Advertisement Targets

~20 Contracts to be advertised for CY 19

Scope of work similar to CY 18, focus more on preventative maintenance aspect
Richmond District Bridge Condition Summary
2018 Interstate Bridge Condition

Total Number of Bridges = 520
% Sufficiency = 98.1%
% Deficient = 1.9%

District doesn’t meet the goal of 99% Non-Structurally Deficient for all IS Bridges*
Richmond District Bridge Condition Summary
2018 Primary Bridge Condition

- **Good**: 69%
- **Fair**: 26%
- **Poor**: 5%

Total Number of Bridges = 779
% Sufficiency = 94.7%
% Deficient = 5.3%

× District doesn’t meet the goal of 96% Non-Structurally Deficient for all Primary Bridges*

*VDOT*
Richmond District Bridge Condition Summary
2018 Secondary Bridge Condition

- Good: 67%
- Fair: 27%
- Poor: 6%

Total Number of Bridges = 1127
% Sufficiency = 93.9%
% Deficient = 6.1%

District doesn’t meet the goal of 94% Non-Structurally Deficient for all Secondary Bridges*
**District Structure & Bridge**

2018-19 Preventative & Restoration Maintenance Program

<table>
<thead>
<tr>
<th>Projects</th>
<th>Estimate</th>
</tr>
</thead>
<tbody>
<tr>
<td>3 District-wide Structural Steel Repair On-call Contracts</td>
<td>$4,200,000 (renew)</td>
</tr>
<tr>
<td>3 District-wide General Maint. Repair On-call Contracts</td>
<td>$3,500,000 (renew)</td>
</tr>
<tr>
<td>Varina-Enon Pylon Acoustic Emissions</td>
<td>$3,000,000</td>
</tr>
<tr>
<td>Varina-Enon Stay Cable Coating and Rain Boots</td>
<td>$3,000,000</td>
</tr>
<tr>
<td>Benjamin Harrison Footing Repairs</td>
<td>$1,000,000</td>
</tr>
<tr>
<td>Benjamin Harrison Bridge Lift Cable and Generators</td>
<td>$10,400,000</td>
</tr>
<tr>
<td>I-95 over James River Trough and Deck Repairs</td>
<td>$1,500,000</td>
</tr>
<tr>
<td>Joint/Deck Rehab/Repair On-call Contract (renew)</td>
<td>$1,000,000</td>
</tr>
<tr>
<td>District-wide Zone Coating Paint Contract (renew)</td>
<td>$1,000,000</td>
</tr>
<tr>
<td>Route 681 over Appomattox River scour repairs</td>
<td>$1,200,000</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>$29,800,000</strong></td>
</tr>
</tbody>
</table>
### 2018-19 New Construction
**Structure & Bridge Program**

#### Replacement/Rehabilitation Projects

<table>
<thead>
<tr>
<th>Project Description</th>
<th>Cost</th>
<th>Advertisement Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>I-64 over Route 156</td>
<td>$27,600,000</td>
<td>(Advertise August 2018)</td>
</tr>
<tr>
<td>Route 636 over Rita Branch</td>
<td>$1,800,000</td>
<td>(Advertise November 2018)</td>
</tr>
<tr>
<td>Route 46 over Route 58</td>
<td>$2,200,000</td>
<td>(Advertise February 2019)</td>
</tr>
<tr>
<td>Route 195 over Route 76</td>
<td>$12,800,000</td>
<td>(Advertise March 2019)</td>
</tr>
<tr>
<td>Route 634 over Courthouse Creek</td>
<td>$500,000</td>
<td>(Advertise March 2019)</td>
</tr>
<tr>
<td>Route 155 over Chickahominy Canal</td>
<td>$500,000</td>
<td>(Advertise March 2019)</td>
</tr>
</tbody>
</table>

**Total Replacement/Rehabilitation** $45,400,000
2018-19 New SGR Design Starts*
Structure & Bridge Program

• I-195 over CSX and Westwood Avenue
• Route 250 over I-95
• I-95 over Route 301 and 460
• Route 33 over I-64 at Bottom’s Bridge
• 4th Street over I-95
• Route 1 over CSX ROW (Brunswick Co.)
• Fort Lee Road over I-85

*Contingent upon CTB approval
Proudly Serving the Fredericksburg and Richmond Districts
What are District Operations?

Traffic Engineering Services
• Traffic Studies
• Safety Studies
• Land Development Reviews
• Traffic Signal Design
• Work Zone Reviews

Asset Maintenance
• Traffic Signals
• Pavement Markings
• Highway Signing
• Highway Lighting
What are Regional Operations?

- **On-Call Traffic Signal Contracts**
- **Traffic Operations Center**
  - Incident Management
  - Emergency Response
  - Traveler Information
  - Traffic Signal Operations
  - Safety Service Patrol
What are Statewide Operations?

• Combined VDOT Sign Shop
  ▪ 15,000 sq. ft. modern manufacturing facility
  ▪ Fabricates all VDOT-produced signs
  ▪ 156,000 signs and decals produced in 2017
  ▪ $2.7 million
## Operations Six Year Plan Projects
### Richmond District

<table>
<thead>
<tr>
<th>Project Description</th>
<th>Project Advertisement</th>
</tr>
</thead>
<tbody>
<tr>
<td>GUARDRAIL INSTALLATION ON-CALL – DISTRICTWIDE (UPC 112714)</td>
<td>$550,000</td>
</tr>
<tr>
<td>RTE 95 - UPGRADE OVERLAP SIGNS (UPC 107769), Letting extended to 5/23/18</td>
<td>$4,500,000</td>
</tr>
<tr>
<td>SIGN &amp; STRUCTURE REPAIR/REPLACEMENT - ON-CALL – DISTRICTWIDE (UPC 111110)</td>
<td>$1,700,000</td>
</tr>
<tr>
<td>INSTALL FLASHING YELLOW ARROWS - DISTRICTWIDE (PHASE 2)</td>
<td>$1,700,000</td>
</tr>
<tr>
<td>ON-CALL TRAFFIC SIGNAL CONTRACT – REGIONAL (UPC 112732 )</td>
<td>$3,400,000</td>
</tr>
<tr>
<td>INSTALL PEDESTRIAN ACCOMMODATIONS – DISTRICTWIDE (UPC 106240) Re-advertised 4/24/2018</td>
<td>$800,000</td>
</tr>
<tr>
<td>I-64 EAST RICHMOND ATMS PROJECT (UPC 109261)</td>
<td>$3,500,000</td>
</tr>
</tbody>
</table>
Highway Safety Improvement Program (HSIP)

HSIP is a core program administered at the federal level by the US department of Transportation Federal Highway Administration (FHWA) office of safety.

The primary objective of HSIP is to identify and improve locations where there is a high concentration or risk of vehicle crashes that result in death or injuries.

Involves a comprehensive data driven approach and Coordinate with the 2017-2021 Strategic Highway Safety Plan (SHSP)
Richmond District YTD Fatalities
Fatal Crashes – 2017

• Fixed Object – Off Road crashes continue to constitute the largest number of fatalities
• Angle and Pedestrian crashes continue to contribute to overall fatality numbers
• Key areas of safety emphasis:
  ▪ Roadway Departure Countermeasures (edgeline/centerline rumble stripes, guardrail improvements)
  ▪ Pedestrian accommodations (improved signage, crosswalks)
  ▪ Visibility enhancements (new/upgraded TCDs, roadway lighting in areas with pedestrians)
Systemic Low Cost Safety Countermeasures Examples:

- **Flashing Yellow Arrow**
  - Drivers turning left must stop and wait (except where permitted by law).
  - Steady Yellow Arrow
    - Stop, if you can do so safely.
  - Flashing Yellow Arrow
    - Proceed with left turn after yielding to oncoming traffic and pedestrians.
  - Steady Green Arrow
    - Proceed with left turn.

- **Retroreflective Backplates**

- **Rumble Strips/Stripes**

- **Safety Edge**

**FHWA proven safety countermeasures**
Operational Improvements
I-95 Northbound Bryan Park (mile 79)
Results since May 2017

Travel Time in Minutes

I-64 EB and 195 NB approach ramps

Travel Time (minutes)

June – August 2016
June – August 2017

Decrease in travel time on I-64 EB and 195 NB approaches

<table>
<thead>
<tr>
<th>I-64 EB and 195 NB approach ramps</th>
<th>Travel Time (minutes) (Every weekday) 4 PM - 6 PM</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>May - July 2016</td>
</tr>
<tr>
<td>Monday</td>
<td>3.08</td>
</tr>
<tr>
<td>Tuesday</td>
<td>3.33</td>
</tr>
<tr>
<td>Wednesday</td>
<td>3.52</td>
</tr>
<tr>
<td>Thursday</td>
<td>3.62</td>
</tr>
<tr>
<td>Friday</td>
<td>2.88</td>
</tr>
<tr>
<td>Average</td>
<td>3.286</td>
</tr>
</tbody>
</table>
Questions?

Robb Alexander
Operations Director – Central Region
Phone: (804) 796-4533
Robert.Alexander@VDOT.Virginia.gov