

NORTH CAROLINA BOARD OF TRANSPORTATION MEETING

- Call to Order Chairman Fox
- Ethics Statement Chairman Fox
- Approval of September 7, 2017 Board Meeting Minutes Chairman Fox
- Road and Bridge Naming Honorary Designations Chairman Fox
- **Secretary's** Remarks Secretary Trogdon

INFORMATION AND DELEGATED AUTHORITY

- (Item C) Award of Highway Construction Contracts from September 2017 Letting
- (Item D) Award of Contracts to Private Firms for Engineering Services
- (Item H) Approval of Funds for Division-wide Small Construction, Statewide Contingency, Public Access, and Economic Development
- (Item L) Approval of Funds for Specific Spot Safety Improvement Projects

NC Department of Cultural Resources Update

Secretary Susi H. Hamilton

USDOT Update

Jim Ray, Special Advisor to the Secretary for Infrastructure, USDOT

AASHTO Update

Jim Tymon, Director of Policy and Management, AASHTO

ACTION

Chairman Fox

Championship Signing

Approval of Projects

- (Item I) Additions and Abandonments to State Secondary Road System Public Transportation Program
 - (Item I-1) Public Transportation
 - (Item I-1A) Public Transportation
 - (Item I-2) Rail Program
 - (Item I-4) Aviation
- (Item K) North Carolina Highway Trust Funds
- (Item M) Funds for Specific Federal-Aid Projects
- (Item N) Revisions to the 2016-2017 STIP
- (Item O) Municipal and Special Agreements
- (Item R) Right of Way Resolutions and Ordinances
- (Item T) Submission of Comprehensive Transportation Plans for Mutual Adoption by the Board of Transportation

Committee Reports

Committee Chairs

Other Business

Chairman Fox

Adjourn

Chairman Fox

**PROJECTS LIST
NORTH CAROLINA BOARD OF TRANSPORTATION
RALEIGH, NORTH CAROLINA**

October 4-5, 2017

Delegated AuthoritySecretary Trogon

- (Item C) Award of Highway Construction Contracts from September 2017 Letting
- (Item D) Award of Contracts to Private Firms for Engineering Services
- (Item E) Funds for Secondary Road Improvement Projects –
Highway Fund and Highway Trust Fund **(No Item this month)**
- (Item H) Funds for Division-wide Small Construction,
Statewide Contingency, Public Access, and Economic Development
- (Item L) Funds for Specific Spot Safety Improvement Projects

ActionChairman Fox

- (Item G) Additions, Abandonments, and Road Name Changes to State
Secondary Road System
- (Item I) Public Transportation Program
 - (Item I-1) Public Transportation
 - (Item I-1A) Public Transportation
 - (Item I-2) Rail Program
 - (Item I-3) Bicycle and Pedestrian **(No Item this month)**
 - (Item I-4) Aviation
- (Item J) Specific State Funds for Construction Projects **(Item K now replaces Item J)**
- (Item K) North Carolina Highway Trust Funds
- (Item M) Funds for Specific Federal-Aid Projects
- (Item N) Revisions to the 2016-2025 STIP
- (Item O) Municipal and Special Agreements
- (Item P) Municipal Street System Changes **(No Item this month)**
- (Item R) Right of Way Resolutions and Ordinances
- (Item S) Maintenance Allocations **(No Item this month)**
- (Item T) Submission of Comprehensive Transportation Plans for Mutual
Adoption by the Board of Transportation
- (Item V) **(No Item this month)**

NCDOT Board of Transportation Agenda

ITEM C

September 2017

According to Executive Order No. 2 and G.S. 143B-350(g), the Board is requested to concur with staff recommendations and delegate authority to the Secretary to award the following highway construction projects.

HIGHWAY LETTING
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH N.C.
SEPTEMBER 19, 2017
DIVISION 00003

C203957
42840.3.1
STATE FUNDED
NEW HANOVER
B-5236

PROPOSAL LENGTH 0.185 MILES

TYPE OF WORK GRADING, DRAINAGE, PAVING, AND STRUCTURE.

LOCATION BRIDGE #19 OVER LORDS CREEK ON SR-1100.

EST CONST PROGRESS.... FY-2018..100% OF BID

RPN 002 6 BIDDER(S) MBE GOAL 2.00 % WBE GOAL 3.00%
ESTIMATE 1,455,374.41

DATE AVAILABLE OCT 30 2017 THRU JAN 15 2018

INTER COMPLETION COMPLETE ALL WORK EXCEPT PLANTING, REFORESTATION, OR PERMANENT
VEGETATION ESTABLISHMENT 180 DAY(S) AFTER START

FINAL COMPLETION 360 DAY(S) AFTER START DATE

	\$ TOTALS	% DIFF
S T WOOTEN CORPORATION WILSON, NC	1,577,790.76	+8.4
THE TARA GROUP OF LUMBERTON INC LUMBERTON, NC	1,615,599.36	+11.0
SANFORD CONTRACTORS INC LEMON SPRINGS, NC	1,667,000.00	+14.5
SLOAN CONSTRUCTION A DIVISION OF REEVES CONSTRUCTION COMPANY	1,668,576.80	+14.6
SMITH-ROWE, LLC MOUNT AIRY, NC	1,918,274.14	+31.8
DELLINGER, INC. MONROE, NC	1,933,375.55	+32.8

HIGHWAY LETTING
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH N.C.
SEPTEMBER 19, 2017
DIVISION 00003

C204086
2018CPT.03.01.10311, 2018CPT.03.01.20311
STATE FUNDED
DUPLIN

PROPOSAL LENGTH 51.793 MILES

TYPE OF WORK MILLING, RESURFACING & SHOULDER RECONSTRUCTION.

LOCATION 1 SECTION OF US-117 ALT, 2 SECTIONS OF NC-11, 2 SECTIONS OF NC-24 BUS, AND 10 SECTIONS OF SECONDARY ROADS.

EST CONST PROGRESS.... FY-2018..77% OF BID
FY-2019..23% OF BID

RPN 003 2 BIDDER(S) MBE GOAL 2.00 % WBE GOAL 4.00%
ESTIMATE 5,622,539.23

DATE AVAILABLE OCT 30 2017

FINAL COMPLETION NOV 16 2018

	\$ TOTALS	% DIFF
BARNHILL CONTRACTING COMPANY ROCKY MOUNT, NC	5,099,948.84	-9.3
ROSE BROTHERS PAVING CO INC AHOSKIE, NC	6,058,760.54	+7.8

HIGHWAY LETTING
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH N.C.
SEPTEMBER 19, 2017
DIVISION 00004

C203975
44795.3.1
STBG-0301(041)
WILSON
U-5935

PROPOSAL LENGTH 1.351 MILES

TYPE OF WORK GRADING, DRAINAGE, PAVING, SIGNALS, AND STRUCTURE.

LOCATION US-301 FROM SR-1670 (PENDER ST) TO SR-1515 (LISCOMB ROAD) AND ALONG WARD BLVD
AND HERRING AVE.

EST CONST PROGRESS.... FY-2018..32% OF BID
FY-2019..67% OF BID
FY-2020..01% OF BID

RPN 004 3 BIDDER(S) DBE GOAL 10.00 %
ESTIMATE 11,806,021.57

DATE AVAILABLE MAR 15 2018

INTER COMPLETION JUL 15 2019 COMPLETE ALL WORK EXCEPT PLANTING, REFORESTATION, OR
PERMANENT VEGETATION ESTABLISHMENT

FINAL COMPLETION JAN 11 2020

	\$ TOTALS	% DIFF
S T WOOTEN CORPORATION WILSON, NC	13,601,284.87	+15.2
PLT-RBP JV CONSTRUCTION WILSON, NC	15,129,473.99	+28.2
FSC II LLC DBA FRED SMITH COMPANY RALEIGH, NC	15,136,500.00	+28.2

HIGHWAY LETTING
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH N.C.
SEPTEMBER 19, 2017
DIVISION 00005

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ITEM C

C204087

2018CPT.05.04.10321.1, 2018CPT.05.04.20321.1, 2018CPT.05.04.20322.1

STATE FUNDED

DURHAM

PROPOSAL LENGTH 44.124 MILES

TYPE OF WORK MILLING, RESURFACING, AND SHOULDER GRADING.

LOCATION 1 SECTION OF US-70 AND 106 SECTIONS OF SECONDARY ROADS.

EST CONST PROGRESS.... FY-2018..77% OF BID
FY-2019..23% OF BID

RPN 005 4 BIDDER(S) MBE GOAL 3.00 % WBE GOAL 4.00%
ESTIMATE 7,137,314.34

DATE AVAILABLE OCT 30 2017

INTER COMPLETION AUG 15 2018 COMPLETE ALL WORK REQUIRED ON MAP #13.

FINAL COMPLETION NOV 15 2018

	\$ TOTALS	% DIFF
CAROLINA SUNROCK LLC RALEIGH, NC	7,054,264.20	-1.2
THE LANE CONSTRUCTION CORPORATION CHESHIRE, CT	7,599,157.60	+6.5
FSC II LLC DBA FRED SMITH COMPANY RALEIGH, NC	7,808,953.02	+9.4
BARNHILL CONTRACTING COMPANY ROCKY MOUNT, NC	8,077,428.10	+13.2

HIGHWAY LETTING
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH N.C.
SEPTEMBER 19, 2017
DIVISION 00005

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C204083
2018CPT.05.05.10391.1, 2018CPT.05.05.20391.1
STATE FUNDED
GRANVILLE

PROPOSAL LENGTH 48.580 MILES

TYPE OF WORK MILLING, RESURFACING, AND SHOULDER RECONSTRUCTION.

LOCATION 2 SECTIONS OF US-158, 1 SECTION OF NC-96, AND 12 SECTIONS OF SECONDARY ROADS.

EST CONST PROGRESS.... FY-2018..80% OF BID
FY-2019..20% OF BID

RPN 006 2 BIDDER(S) MBE GOAL 3.00 % WBE GOAL 5.00%
ESTIMATE 6,872,020.60

DATE AVAILABLE OCT 30 2017

FINAL COMPLETION NOV 01 2018

	\$ TOTALS	% DIFF
CAROLINA SUNROCK LLC RALEIGH, NC	6,239,047.76	-9.2
S T WOOTEN CORPORATION WILSON, NC	6,457,534.72	-6.0

HIGHWAY LETTING
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH N.C.
SEPTEMBER 19, 2017
DIVISION 00013

C204084
2018CPT.13.02.10121, 2018CPT.13.02.20121, 2018CPT.13.02.20122
STATE FUNDED
BURKE

PROPOSAL LENGTH 56.070 MILES

TYPE OF WORK MILLING, RESURFACING & SHOULDER RECONSTRUCTION.

LOCATION 2 SECTIONS OF NC-126, 1 SECTION OF US-70, AND 69 SECTIONS OF SECONDARY ROADS.

EST CONST PROGRESS.... FY-2018..34% OF BID
FY-2019..66% OF BID

RPN 007 2 BIDDER(S) MBE GOAL 2.00 % WBE GOAL 3.00%
ESTIMATE 5,905,008.80

DATE AVAILABLE MAR 15 2018

INTER COMPLETION AUG 03 2018 COMPLETE ALL WORK REQUIRED ON VARIOUS MAPS.

FINAL COMPLETION JUN 01 2019

	\$ TOTALS	% DIFF
MAYMEAD, INC. MOUNTAIN CITY, TN	5,546,616.69	-6.1
J. T. RUSSELL & SONS, INC. ALBEMARLE, NC	6,999,420.19	+18.5

HIGHWAY LETTING
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH N.C.
SEPTEMBER 19, 2017
DIVISION 00013

C204085
2018CPT.13.06.10811, 2018CPT.13.06.20811, 2018CPT.13.06.20812
STATE FUNDED
RUTHERFORD

PROPOSAL LENGTH 98.364 MILES

TYPE OF WORK MILLING, RESURFACING, AND SHOULDER RECONSTRUCTION.

LOCATION 2 SECTIONS OF US-74 BUS, 1 SECTION OF US-220 ALT, AND 131 SECTIONS OF SECONDARY ROADS.

EST CONST PROGRESS.... FY-2018..32% OF BID
FY-2019..67% OF BID
FY-2020..01% OF BID

RPN 008 2 BIDDER(S) MBE GOAL 3.00 % WBE GOAL 3.00%
ESTIMATE 6,873,014.28

DATE AVAILABLE MAR 15 2018

INTER COMPLETION AUG 04 2018 COMPLETE ALL WORK REQUIRED ON VARIOUS MAPS.

FINAL COMPLETION JUL 15 2019

	\$ TOTALS	% DIFF
ROGERS GROUP INC NASHVILLE, TN	7,162,079.81	+4.2
HARRISON CONSTRUCTION COMPANY DIVISION OF APAC-ATLANTIC INC KN	8,552,120.79	+24.4

HIGHWAY LETTING
 NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 RALEIGH N.C.
 SEPTEMBER 19, 2017
 DIVISION 00014

C204039
 34243.3.2
 STATE FUNDED
 POLK
 I-4729A

PROPOSAL LENGTH 0.679 MILES

TYPE OF WORK GRADING, DRAINAGE, PAVING, SIGNING, AND STRUCTURES.

LOCATION I-26/US-74/NC-108 INTERCHANGE MODIFICATION IN THE TOWN OF COLUMBUS.

EST CONST PROGRESS.... FY-2018..92% OF BID
 FY-2019..08% OF BID

RPN 009 7 BIDDER(S) MBE GOAL 3.00 % WBE GOAL 4.00%
 ESTIMATE 22,897,599.51

DATE AVAILABLE OCT 30 2017

INTER COMPLETION AUG 17 2018 COMPLETE ALL WORK EXCEPT PLANTING, REFORESTATION, OR
 PERMANENT VEGETATION ESTABLISHMENT

FINAL COMPLETION FEB 13 2019

	\$ TOTALS	% DIFF
VECELLIO & GROGAN INC SHARPE BROTHERS BECKLEY, WV	19,088,383.95	-16.6
GLF CONSTRUCTION CORPORATION MIAMI, FL	19,871,926.89	-13.2
FLATIRON CONSTRUCTORS INC MORRISVILLE, NC	20,693,890.26	-9.6
SLOAN CONSTRUCTION A DIVISION OF REEVES CONSTRUCTION COMPANY	22,379,490.13	-2.3
NHM CONSTRUCTORS, LLC ASHEVILLE, NC	23,761,371.45	+3.8
BLYTHE DEVELOPMENT CO. CHARLOTTE, NC	24,573,781.02	+7.3
CHARLES BLALOCK & SONS, INC. SEVIERVILLE, TN	28,438,720.48	+24.2

	ESTIMATE TOTAL	68,568,892.74
	LETTING TOTAL	65,369,416.88 -4.7

**NCDOT October 2017
Board of Transportation Agenda**

According to Executive Order No. 2 and G. S. 143B-350 (g) the Board is requested to concur with staff recommendations and delegate authority to the Secretary to award contracts to private firms for engineering services.

Professional Services Management

Chief Operating Officer

Chief Engineer

Transportation Mobility and Safety

ITS & Signals

After careful evaluation of the workload and schedules of the work that can be accomplished by our staff, it was determined necessary to employ a private firm for work on U-5942 listed below for our Department to obligate available funds. Our staff was authorized to proceed with the actions required to employ private engineering firms in accordance with the policies and procedures adopted by the Board on May 7, 2009. This is for information only.

DIVISION 1

Project:	45861.1.1 (U-5942) Camden County Elizabeth City Signal System
Scope of Work:	Preparing detailed plans, specifications and an engineer's estimate for the installation of the Elizabeth City computerized signal system.
Estimated Construction Cost:	\$2,600,000.00
Firm:	DRMP, Inc., Charlotte, NC
Maximum Engineering Fee:	\$500,000.00
SPSF Utilization:	0%

Field Support

Structures Management

The following is a supplemental contract to a previous contract approved by the Board with the same engineering firm. This supplemental contract was necessary due to approved additional work that was unknown at the inception and is required of the firm to complete the project. Our staff has completed the actions in accordance with the policies and procedures adopted by the Board on May 7, 2009. This is for information only.

STATEWIDE

Description of Work:	2015 Structures Management Specialty Services LSC
Firm:	Greenman-Pedersen Inc, Scranton, PA
Original Engineering Fee:	\$2,000,000.00
Supplemental Fee:	\$2,000,000.00
SPSF Utilization:	0%

Facilities Management

After careful evaluation of the workload and schedules of the work that can be accomplished by our staff, it was determined necessary to employ a private firm to provide Inspection Services for the Roadway Lighting Guaranteed Energy Savings Performance Contract listed below for our Department to obligate available funds. Our staff was authorized to proceed with the actions required to employ private engineering firms in accordance with the policies and procedures adopted by the Board on May 7, 2009. This is for information only.

STATEWIDE

Project:	51208 Statewide Roadway Lighting Project
Scope of Work:	Inspection Services
Estimated Construction Cost:	\$32,303,412.00
Firm:	Zapata-LJB, PLLC, Charlotte, NC
Maximum Engineering Fee:	\$1,500,000.00
SPSF Utilization:	100%

Divisions

Division 1

After careful evaluation of the workload and schedules of the work that can be accomplished by our staff, it was determined necessary to employ a private firm to provide Construction Engineering and Inspection Services for project B-2500B listed below for our Department to obligate available funds. Our staff was authorized to proceed with the actions required to employ private engineering firms in accordance with the policies and procedures adopted by the Board on May 7, 2009. This is for information only.

DIVISION 1

Project:	32635.3.10 (B-2500B) Dare County Rodanthe on NC 12 Long-Term Improvements (Phase II)
Scope of Work:	Construction Engineering and Inspection Services
Estimated Construction Cost:	\$145,336,271.00
Firm:	Sepi Engineering & Construction Inc, Raleigh, NC
Maximum Engineering Fee:	\$6,500,000.00
SPSF Utilization:	0%

Division 2

After careful evaluation of the workload and schedules of the work that can be accomplished by our staff, it was determined necessary to employ a private firm to provide General Engineering Services Consultant services for project U-5740/U-5876 listed below for our Department to obligate available funds. Our staff was authorized to proceed with the actions required to employ private engineering firms in accordance with the policies and procedures adopted by the Board on May 7, 2009. This is for information only.

DIVISION 2

Project: 44678.1.1 (U-5876) and 54029.1.1 (U-5740) Carteret County
US 70 (Arendell Street) from 4TH Street to SR 1175 (Radio Island Road) Widen to Multi-Lanes; and US 70 (Arendell Street) from Morehead City to Beaufort Causeway Widen and Improve Newport River Bridge

Scope of Work: General Engineering Services Consultant
Estimated Construction Cost: \$139,607,000.00
Firm: RS&H Architects-Engineers-Planners, Inc., Charlotte, NC

Maximum Engineering Fee: \$5,000,000.00
SPSF Utilization: Commonwealth Heritage Group Inc
1% / \$50,000.00

SPSF Utilization: Carolina Ecosystems Inc
2% / \$100,000.00

SPSF Utilization: Progressive Design Group, Inc.
1% / \$50,000.00

Division 10

The following is a supplemental contract to a previous contract approved by the Board with the same engineering firm. This supplemental contract was necessary due to approved additional work that was unknown at the inception and is required of the firm to complete the project. Our staff has completed the actions in accordance with the policies and procedures adopted by the Board on May 7, 2009. This is for information only.

DIVISION 10

Project: 44381.1.1 (U-5808) Union County
SR 1362 (Chestnut Lane Connector) from SR 1367 (Matthews Indian Trail Road) to SR 1368 (Gribble Road) – Construct Road on New Location

Scope of Work: Preparation of an Environmental Assessment (EA) / Finding of No Significant Impacts (FONSI)

Estimated Construction Cost: \$3,400,000.00
Firm: Mead & Hunt Inc, Raleigh, NC
Original Engineering Fee: \$500,000.00
Supplemental Fee: \$1,200,000.00
Supplemental Work: Final design including bridge design
DBE/WBE/SPSF Utilization: Ecological Engineering LLP
3% / \$36,000.00

DBE/MBE/SPSF Utilization: Neighborhood Solutions LLC
2% / \$24,000.00

Divisions 1-4 and 6

The following are supplemental contracts to previous contracts approved by the Board with the same engineering firms. These supplemental contracts were necessary due to approved additional work that was unknown at the inception and is required of the firms to complete the project. Our staff has completed the actions in accordance with the policies and procedures adopted by the Board on May 7, 2009. These are for information only.

October 5, 2017

DIVISIONS 1-4 and 6

Description of Work: 2015 Eastern Region Highway Divisions (Divisions 1, 2, 3, 4, and 6) Planning and Design LSC
Firm: Kimley-Horn & Associates, Inc, Raleigh, NC
Original Engineering Fee: \$3,000,000.00
Previous Supplemental Fee: \$2,000,000.00
Supplemental Fee: \$1,000,000.00
DBE/WBE/SPSF Utilization: CH Engineering PLLC
8% / \$80,000.00
SPSF Utilization: Catlin Engineers and Scientists
6% / \$60,000.00
SPSF Utilization: Carolina Land Acquisitions Inc
5% / \$50,000.00
DBE/MBE/SPSF Utilization: Vistabution LLC
5% / \$50,000.00
DBE/WBE/SPSF Utilization: New South Associates, Inc.
2% / \$20,000.00

Description of Work: 2015 Eastern Region Highway Divisions (Divisions 1, 2, 3, 4, and 6) Planning and Design LSC
Firm: Rummel Klepper & Kahl LLP, Raleigh, NC
Original Engineering Fee: \$3,000,000.00
Previous Supplemental Fee: \$4,000,000.00
Supplemental Fee: \$2,000,000.00
DBE/WBE/SPSF Utilization: Falcon Engineering Inc
4% / \$80,000.00
SPSF Utilization: Ramey Kemp & Associates, Inc.
1% / \$20,000.00
DBE/WBE/SPSF Utilization: New South Associates, Inc.
1% / \$20,000.00
DBE/MBE/SPSF Utilization: MM/I and Associates LLC
1% / \$20,000.00
DBE/WBE/SPSF Utilization: CH Engineering PLLC
2% / \$40,000.00

Description of Work: 2015 Eastern Region Highway Divisions (Divisions 1, 2, 3, 4, and 6) Planning and Design LSC
Firm: VHB Engineering NC PC, Watertown, MA
Original Engineering Fee: \$3,000,000.00
Previous Supplemental Fee: \$4,000,000.00
Supplemental Fee: \$2,000,000.00
SPSF Utilization: Commonwealth Heritage Group Inc
1% / \$20,000.00
DBE/WBE/SPSF Utilization: Falcon Engineering Inc
3% / \$60,000.00
DBE/SPSF Utilization: MI Engineering, PLLC
5% / \$100,000.00
SPSF Utilization: Calyx Engineers and Consultants
6% / \$120,000.00
SPSF Utilization: Sungate Design Group PA
5% / \$100,000.00
SPSF Utilization: TGS Engineers
6% / \$120,000.00

Divisions 10-14

The following are supplemental contracts to previous contracts approved by the Board with the same engineering firms. These supplemental contracts were necessary due to approved additional work that was unknown at the inception and is required of the firms to complete the project. Our staff has completed the actions in accordance with the policies and procedures adopted by the Board on May 7, 2009. These are for information only.

DIVISIONS 10-14

Description of Work:	2015 Western Region Highway Divisions (Divisions 10,11,12,13,14) Planning and Design LSC
Firm:	HNTB of North Carolina, PC, Raleigh, NC
Original Engineering Fee:	\$3,000,000.00
Previous Supplemental Fee:	\$5,000,000.00
Supplemental Fee:	\$4,000,000.00
SPSF Utilization:	Commonwealth Heritage Group Inc 1% / \$40,000.00
DBE/WBE/SPSF Utilization:	Three Oaks Engineering 3% / \$120,000.00
DBE/MBE/SPSF Utilization:	MA Engineering Consultants Inc 5% / \$200,000.00
SPSF Utilization:	Carolina Land Acquisitions Inc 1% / \$40,000.00

Description of Work:	2015 Western Region Highway Divisions (Divisions 10,11,12,13,14) Planning and Design LSC
Firm:	Mattern & Craig Inc, Asheville, NC
Original Engineering Fee:	\$3,000,000.00
Previous Supplemental Fee:	\$2,000,000.00
Supplemental Fee:	\$1,000,000.00
SPSF Utilization:	100%

Description of Work:	2015 Western Region Highway Divisions (Divisions 10,11,12,13,14) Planning and Design LSC
Firm:	HDR Engineering Inc of the Carolinas, Chicago, IL
Original Engineering Fee:	\$3,000,000.00
Previous Supplemental Fee:	\$3,000,000.00
Supplemental Fee:	\$2,000,000.00
SPSF Utilization:	Mattern & Craig Inc 5% / \$100,000.00
SPSF Utilization:	Hinde Engineering Inc 5% / \$100,000.00
SPSF Utilization:	Patriot Transportation Engineering PLLC 5% / \$100,000.00
SPSF Utilization:	Ramey Kemp & Associates, Inc. 5% / \$100,000.00

Statewide

After careful evaluation of the workload and schedules of the work that can be accomplished by our staff, it was determined necessary to employ private firms for Construction Engineering & Inspection on an as needed basis for various federal-aid and state funded projects to support the Division of Highways. These contracts will expire two (2) years with a one (1) year optional renewal after the date of execution or after the contract amount has been depleted, whichever occurs first. Our staff has completed the actions for employing private firms in accordance with the policies and procedures adopted by the Board on May 7, 2009. These are for information only.

STATEWIDE

Description of Work: 2017 Statewide On-Call Construction Engineering & Inspection Services LSC
Firm: HNTB of North Carolina, PC, Raleigh, NC
Maximum Engineering Fee: \$5,000,000.00
SPSF Utilization: 0%

Description of Work: 2017 Statewide On-Call Construction Engineering & Inspection Services LSC
Firm: S&ME Inc, Raleigh, NC
Maximum Engineering Fee: \$5,000,000.00
DBE/WBE/SPSF Utilization: Wetherill Engineering, Inc.
10% / \$500,000.00

Description of Work: 2017 Statewide On-Call Construction Engineering & Inspection Services LSC
Firm: Gannett Fleming, Inc., Philadelphia, PA
Maximum Engineering Fee: \$5,000,000.00
DBE/MBE/SPSF Utilization : CES Consulting LLC
20% / \$1,000,000.00

Description of Work: 2017 Statewide On-Call Construction Engineering & Inspection Services LSC
Firm: ECS Southeast, LLP, Charlotte, NC
Maximum Engineering Fee: \$5,000,000.00
DBE/MBE/SPSF Utilization: BBFoster Consulting PC
10% / \$500,000.00
DBE/MBE/SPSF Utilization: Capstone Civil Engineering, Inc.
10% / \$500,000.00

Description of Work: 2017 Statewide On-Call Construction Engineering & Inspection Services LSC
Firm: ESP Associates PA, Charlotte, NC
Maximum Engineering Fee: \$5,000,000.00
SPSF Utilization: 0%

Description of Work: 2017 Statewide On-Call Construction Engineering & Inspection Services LSC
Firm: A. Morton Thomas & Associates Inc, Raleigh, NC
Maximum Engineering Fee: \$5,000,000.00
SPSF Utilization: 0%

October 5, 2017

Description of Work: 2017 Statewide On-Call Construction Engineering & Inspection Services LSC
Firm: RS&H Architects-Engineers-Planners, Inc., Charlotte, NC
Maximum Engineering Fee: \$5,000,000.00
SPSF Utilization: 0%

Description of Work: 2017 Statewide On-Call Construction Engineering & Inspection Services LSC
Firm: Kisinger Campo & Associates Corp, Tampa, FL
Maximum Engineering Fee: \$5,000,000.00
SPSF Utilization: 0%

Description of Work: 2017 Statewide On-Call Construction Engineering & Inspection Services LSC
Firm: Michael Baker Engineering, Inc., Cary, NC
Maximum Engineering Fee: \$10,000,000.00
SPSF Utilization: 0%

Description of Work: 2017 Statewide On-Call Construction Engineering & Inspection Services LSC
Firm: Calyx Engineers and Consultants, Raleigh, NC
Maximum Engineering Fee: \$10,000,000.00
SPSF Utilization: 100%

Description of Work: 2017 Statewide On-Call Construction Engineering & Inspection Services LSC
Firm: ICA Engineering Inc, Raleigh, NC
Maximum Engineering Fee: \$10,000,000.00
SPSF Utilization: 0%

Description of Work: 2017 Statewide On-Call Construction Engineering & Inspection Services LSC
Firm: The Louis Berger Group Inc, Morristown, NJ
Maximum Engineering Fee: \$10,000,000.00
SPSF Utilization: Stewart
2.5% / \$250,000.00

Description of Work: 2017 Statewide On-Call Construction Engineering & Inspection Services LSC
Firm: DRMP Inc., Jacksonville, FL
Maximum Engineering Fee: \$10,000,000.00
SPSF Utilization: 0%

Description of Work: 2017 Statewide On-Call Construction Engineering & Inspection Services LSC
Firm: KCI Associates of North Carolina PA, Baltimore, MD
Maximum Engineering Fee: \$15,000,000.00
SPSF Utilization: Parrish and Partners of North Carolina, PLLC
5% / \$750,000.00

Description of Work: 2017 Statewide On-Call Construction Engineering & Inspection Services LSC
Firm: Vaughn & Melton Consulting Engineers Inc, Asheville, NC
Maximum Engineering Fee: \$15,000,000.00
SPSF Utilization: Mattern & Craig Inc
10% / \$1,500,000.00
DBE/MBE/SPSF Utilization: A1 Consulting Group, Inc.
10% / \$1,500,000.00

Description of Work: 2017 Statewide On-Call Construction Engineering & Inspection Services LSC
Firm: Summit Design and Engineering Services, PLLC, Hillsborough, NC
Maximum Engineering Fee: \$15,000,000.00
SPSF Utilization: 100%

Description of Work: 2017 Statewide On-Call Construction Engineering & Inspection Services LSC
Firm: Volkert Inc, Birmingham, AL
Maximum Engineering Fee: \$15,000,000.00
SPSF Utilization: 0%

Description of Work: 2017 Statewide On-Call Construction Engineering & Inspection Services LSC
Firm: Sepi Engineering & Construction, Inc, Raleigh, NC
Maximum Engineering Fee: \$15,000,000.00
DBE/WBE/SPSF Utilization: CECS, LLP
10% / \$1,500,000.00

Description of Work: 2017 Statewide On-Call Construction Engineering & Inspection Services LSC
Firm: Rummel Klepper & Kahl, LLP, Raleigh, NC
Maximum Engineering Fee: \$15,000,000.00
SPSF Utilization: F&ME Consultants, Inc.
5% / \$750,000.00
SPSF Utilization: Carolina Transportation Engineers & Associates, PC
5% / \$750,000.00

Divisions

The following are supplemental contracts to previous contracts approved by the Board with the same engineering firms. These supplemental contracts were necessary due to approved additional work that was unknown at the inception and is required of the firms to complete the project. Our staff has completed the actions in accordance with the policies and procedures adopted by the Board on May 7, 2009. These are for information only.

DIVISION 1

Description of Work: 2017 On-Call General Engineering Services for
Division-Managed Projects LSC
Firm: Vaughn & Melton Consulting Engineers Inc,
Asheville, NC
Original Engineering Fee: \$1,000,000.00
Supplemental Fee: \$1,500,000.00
DBE/WBE/SPSF Utilization: Ecological Engineering LLP
9% / \$135,000.00
SPSF Utilization: Carolina Transportation Engineers & Associates, PC
8% / \$120,000.00

Description of Work: 2017 On-Call General Engineering Services for
Division-Managed Projects LSC
Firm: Kisinger Campo & Associates Corp, Tampa, FL
Original Engineering Fee: \$1,000,000.00
Supplemental Fee: \$1,500,000.00
DBE/WBE/SPSF Utilization: Ecological Engineering LLP
4% / \$60,000.00
SPSF Utilization: Ramey Kemp & Associates, Inc.
4% / \$60,000.00
SPSF Utilization: TGS Engineers
4% / \$60,000.00
DBE/WBE/SPSF Utilization: Three Oaks Engineering
4% / \$60,000.00

Description of Work: 2017 On-Call General Engineering Services for
Division-Managed Projects LSC
Firm: Stantec Consulting Services Inc, Chicago, IL
Original Engineering Fee: \$1,000,000.00
Supplemental Fee: \$1,500,000.00
DBE/WBE/SPSF Utilization: Falcon Engineering Inc
4% / \$60,000.00
DBE/SPSF Utilization: MI Engineering, PLLC
5% / \$75,000.00

DIVISION 2

Description of Work: 2017 On-Call General Engineering Services for
Division-Managed Projects LSC
Firm: Calyx Engineers and Consultants, Raleigh, NC
Original Engineering Fee: \$500,000.00
Supplemental Fee: \$500,000.00
SPSF Utilization: 100%

Description of Work: 2017 On-Call General Engineering Services for
Division-Managed Projects LSC
Firm: Zapata-LJB, PLLC, Charlotte, NC
Original Engineering Fee: \$500,000.00
Supplemental Fee: \$500,000.00
SPSF Utilization: 100%

Description of Work: 2017 On-Call General Engineering Services for
Division-Managed Projects LSC
Firm: Kimley-Horn & Associates, Inc, Raleigh, NC
Original Engineering Fee: \$500,000.00
Supplemental Fee: \$2,000,000.00
SPSF Utilization: 0%

Description of Work: 2017 On-Call General Engineering Services for
Division-Managed Projects LSC
Firm: AECOM Technical Services of North Carolina, Inc,
Chicago, IL
Original Engineering Fee: \$500,000.00
Supplemental Fee: \$2,000,000.00
DBE/WBE/SPSF Utilization: CH Engineering PLLC
1% / \$20,000.00

Description of Work: 2017 On-Call General Engineering Services for
Division-Managed Projects LSC
Firm: HDR Engineering Inc of the Carolinas, Chicago, IL
Original Engineering Fee: \$1,000,000.00
Supplemental Fee: \$1,500,000.00
SPSF Utilization: Hinde Engineering Inc
2% / \$30,000.00
SPSF Utilization: Clearbox Forecast Group PLLC
1% / \$15,000.00
DBE/WBE/SPSF Utilization: CH Engineering PLLC
1% / \$15,000.00
DBE/WBE/SPSF Utilization: Planning Communities, LLC
2% / \$30,000.00
SPSF Utilization: Carolina Transportation Engineers & Associates, PC
5% / \$75,000.00
SPSF Utilization: Carolina Land Acquisitions Inc
2% / \$30,000.00

Description of Work: 2017 On-Call General Engineering Services for
Division-Managed Projects LSC
Firm: VHB Engineering NC PC, Watertown, MA
Original Engineering Fee: \$1,000,000.00
Supplemental Fee: \$1,500,000.00
SPSF Utilization: Carolina Land Acquisitions Inc
2% / \$30,000.00
DBE/WBE/SPSF Utilization: Falcon Engineering Inc
2% / \$30,000.00
SPSF Utilization: Hinde Engineering Inc
2% / \$30,000.00
DBE/SPSF Utilization: MI Engineering, PLLC
3% / \$45,000.00
SPSF Utilization: Sungate Design Group, PA
3% / \$45,000.00
SPSF Utilization: TGS Engineers
3% / \$45,000.00

DIVISION 3

Description of Work: 2017 On-Call General Engineering Services for
Division-Managed Projects LSC
Firm: Michael Baker Engineering, Inc., Cary, NC
Original Engineering Fee: \$1,000,000.00
Supplemental Fee: \$1,500,000.00
SPSF Utilization: Sungate Design Group PA
5% / \$75,000.00

Description of Work: 2017 On-Call General Engineering Services for
Division-Managed Projects LSC
Firm: Rummel Klepper & Kahl LLP, Raleigh, NC
Original Engineering Fee: \$500,000.00
Supplemental Fee: \$500,000.00
SPSF Utilization: Calyx Engineers and Consultants
2% / \$10,000.00
DBE/WBE/SPSF Utilization: Three Oaks Engineering
1% / \$5,000.00

Description of Work: 2017 On-Call General Engineering Services for
Division-Managed Projects LSC
Firm: Sepi Engineering & Construction, Inc, Raleigh, NC
Original Engineering Fee: \$1,000,000.00
Supplemental Fee: \$1,500,000.00
SPSF Utilization: 0%

Description of Work: 2017 On-Call General Engineering Services for
Division-Managed Projects LSC
Firm: HDR Engineering Inc of the Carolinas, Chicago, IL
Original Engineering Fee: \$500,000.00
Supplemental Fee: \$500,000.00
SPSF Utilization: Hinde Engineering Inc
2% / \$10,000.00
SPSF Utilization: Clearbox Forecast Group PLLC
1% / \$5,000.00
DBE/WBE/SPSF Utilization: CH Engineering PLLC
1% / \$5,000.00
DBE/WBE/SPSF Utilization: Planning Communities, LLC
2% / \$10,000.00
SPSF Utilization: Carolina Transportation Engineers & Associates, PC
5% / \$25,000.00
SPSF Utilization: Carolina Land Acquisitions Inc
2% / \$10,000.00

Description of Work: 2017 On-Call General Engineering Services for
Division-Managed Projects LSC
Firm: RS&H Architects-Engineers-Planners, Inc., Charlotte,
NC
Original Engineering Fee: \$1,000,000.00
Supplemental Fee: \$1,500,000.00
SPSF Utilization: Carolina Ecosystems Inc
3% / \$45,000.00

October 5, 2017

Description of Work: 2017 On-Call General Engineering Services for
Division-Managed Projects LSC
Firm: Stantec Consulting Services Inc, Chicago, IL
Original Engineering Fee: \$500,000.00
Supplemental Fee: \$500,000.00
DBE/WBE/SPSF Utilization: Falcon Engineering Inc
4% / \$20,000.00
DBE/SPSF Utilization: MI Engineering, PLLC
5% / \$25,000.00

DIVISION 4

Description of Work: 2017 On-Call General Engineering Services for
Division-Managed Projects LSC
Firm: HNTB of North Carolina, PC, Raleigh, NC
Original Engineering Fee: \$1,000,000.00
Supplemental Fee: \$1,500,000.00
SPSF Utilization: Environmental Services Inc
5% / \$75,000.00

Description of Work: 2017 On-Call General Engineering Services for
Division-Managed Projects LSC
Firm: TGS Engineers, Shelby, NC
Original Engineering Fee: \$500,000.00
Supplemental Fee: \$500,000.00
SPSF Utilization: 100%

Description of Work: 2017 On-Call General Engineering Services for
Division-Managed Projects LSC
Firm: Wetherill Engineering, Inc., Raleigh, NC
Original Engineering Fee: \$1,000,000.00
Supplemental Fee: \$1,500,000.00
DBE/WBE/SPSF Utilization: 100%

Description of Work: 2017 On-Call General Engineering Services for
Division-Managed Projects LSC
Firm: Kisinger Campo & Associates Corp, Tampa, FL
Original Engineering Fee: \$500,000.00
Supplemental Fee: \$2,000,000.00
DBE/WBE/SPSF Utilization: Ecological Engineering LLP
4% / \$80,000.00
SPSF Utilization: Ramey Kemp & Associates, Inc.
4% / \$80,000.00
SPSF Utilization: TGS Engineers
4% / \$80,000.00
DBE/WBE/SPSF Utilization: Three Oaks Engineering
4% / \$80,000.00

Description of Work: 2017 On-Call General Engineering Services for
Division-Managed Projects LSC
Firm: VHB Engineering NC PC, Watertown, MA
Original Engineering Fee: \$500,000.00
Supplemental Fee: \$500,000.00
SPSF Utilization: Carolina Land Acquisitions Inc
2% / \$10,000.00
DBE/WBE/SPSF Utilization: Falcon Engineering Inc
2% / \$10,000.00
SPSF Utilization: Hinde Engineering Inc
2% / \$10,000.00
DBE/SPSF Utilization: MI Engineering, PLLC
3% / \$15,000.00
SPSF Utilization: Sungate Design Group PA
3% / \$15,000.00
SPSF Utilization: TGS Engineers
3% / \$15,000.00

DIVISION 5

Description of Work: 2017 On-Call General Engineering Services for
Division-Managed Projects LSC
Firm: Atkins North America Inc, Raleigh, NC
Original Engineering Fee: \$1,000,000.00
Supplemental Fee: \$1,500,000.00
SPSF Utilization: Commonwealth Heritage Group, Inc
2% / \$30,000.00

Description of Work: 2017 On-Call General Engineering Services for
Division-Managed Projects LSC
Firm: Calyx Engineers and Consultants, Raleigh, NC
Original Engineering Fee: \$1,000,000.00
Supplemental Fee: \$1,500,000.00
SPSF Utilization: 100%

Description of Work: 2017 On-Call General Engineering Services for
Division-Managed Projects LSC
Firm: Davenport, Winston-Salem, NC
Original Engineering Fee: \$500,000.00
Supplemental Fee: \$500,000.00
DBE/MBE/SPSF Utilization: 100%

Description of Work: 2017 On-Call General Engineering Services for
Division-Managed Projects LSC
Firm: CDM Smith Inc, Raleigh, NC
Original Engineering Fee: \$1,000,000.00
Supplemental Fee: \$1,500,000.00
SPSF Utilization: Summit Design and Engineering Services, PLLC
12% / \$180,000.00
DBE/SPSF Utilization: MI Engineering, PLLC
7% / \$105,000.00

Description of Work: 2017 On-Call General Engineering Services for
Division-Managed Projects LSC
Firm: Summit Design and Engineering Services, PLLC,
Hillsborough, NC
Original Engineering Fee: \$1,000,000.00
Supplemental Fee: \$1,500,000.00
SPSF Utilization: 100%

DIVISION 6

Description of Work: 2017 On-Call General Engineering Services for
Division-Managed Projects LSC
Firm: Dewberry Engineers Inc, Raleigh, NC
Original Engineering Fee: \$500,000.00
Supplemental Fee: \$500,000.00
DBE/WBE/SPSF Utilization: Planning Communities, LLC
5% / \$25,000.00
SPSF Utilization: Patriot Transportation Engineering PLLC
5% / \$25,000.00

Description of Work: 2017 On-Call General Engineering Services for
Division-Managed Projects LSC
Firm: Sepi Engineering & Construction, Inc, Raleigh, NC
Original Engineering Fee: \$500,000.00
Supplemental Fee: \$500,000.00
SPSF Utilization: 0%

Description of Work: 2017 On-Call General Engineering Services for
Division-Managed Projects LSC
Firm: Wetherill Engineering, Inc., Raleigh, NC
Original Engineering Fee: \$500,000.00
Supplemental Fee: \$500,000.00
DBE/WBE/SPSF Utilization: 100%

Description of Work: 2017 On-Call General Engineering Services for
Division-Managed Projects LSC
Firm: Gannett Fleming, Inc., Philadelphia, PA
Original Engineering Fee: \$500,000.00
Supplemental Fee: \$500,000.00
SPSF Utilization: Sungate Design Group PA
5% / \$25,000.00
DBE/SPSF Utilization: MI Engineering, PLLC
5% / \$25,000.00
SPSF Utilization: Progressive Design Group, Inc.
5% / \$25,000.00
DBE/WBE/SPSF Utilization: Three Oaks Engineering
3% / \$15,000.00
SPSF Utilization: EEE Consulting Inc
3% / \$15,000.00
DBE/WBE/SPSF Utilization: Falcon Engineering Inc
2% / \$10,000.00
DBE/MBE/SPSF Utilization: Baseline Mobility Group, Inc.
1% / \$5,000.00

Description of Work: 2017 On-Call General Engineering Services for
Division-Managed Projects LSC
Firm: CDM Smith Inc, Raleigh, NC
Original Engineering Fee: \$500,000.00
Supplemental Fee: \$500,000.00
SPSF Utilization: Summit Design and Engineering Services, PLLC
12% / \$60,000.00
DBE/SPSF Utilization: MI Engineering, PLLC
7% / \$35,000.00

Description of Work: 2017 On-Call General Engineering Services for
Division-Managed Projects LSC
Firm: AECOM Technical Services of North Carolina Inc,
Chicago, IL
Original Engineering Fee: \$1,000,000.00
Supplemental Fee: \$1,500,000.00
DBE/WBE/SPSF Utilization: CH Engineering PLLC
1% / \$15,000.00

DIVISION 7

Description of Work: 2017 On-Call General Engineering Services for
Division-Managed Projects LSC
Firm: Calyx Engineers and Consultants, Raleigh, NC
Original Engineering Fee: \$500,000.00
Supplemental Fee: \$500,000.00
SPSF Utilization: 100%

Description of Work: 2017 On-Call General Engineering Services for
Division-Managed Projects LSC
Firm: Mead & Hunt Inc, Raleigh, NC
Original Engineering Fee: \$1,000,000.00
Supplemental Fee: \$1,500,000.00
DBE/MBE/SPSF Utilization: Davenport
16% / \$240,000.00
SPSF Utilization: EEE Consulting Inc
3% / \$45,000.00
SPSF Utilization: Alpha & Omega Group PC
4% / \$60,000.00
SPSF Utilization: Ramey Kemp & Associates, Inc.
2% / \$30,000.00

Description of Work: 2017 On-Call General Engineering Services for
Division-Managed Projects LSC
Firm: Michael Baker Engineering, Inc., Cary, NC
Original Engineering Fee: \$1,000,000.00
Supplemental Fee: \$1,500,000.00
SPSF Utilization: Sungate Design Group PA
5% / \$75,000.00

Description of Work: 2017 On-Call General Engineering Services for
Division-Managed Projects LSC
Firm: AMEC Foster Wheeler Environment & Infrastructure,
Inc., Durham, NC
Original Engineering Fee: \$1,000,000.00
Supplemental Fee: \$1,500,000.00
SPSF Utilization: 0%

Description of Work: 2017 On-Call General Engineering Services for
Division-Managed Projects LSC
Firm: Mott MacDonald I&E LLC, Pittsburgh, PA
Original Engineering Fee: \$1,000,000.00
Supplemental Fee: \$1,500,000.00
DBE/WBE/SPSF Utilization: Ecological Engineering LLP
3% / \$45,000.00
SPSF Utilization: Carolina Ecosystems Inc
1% / \$15,000.00
DBE/WBE/SPSF Utilization: Falcon Engineering Inc
1% / \$15,000.00
DBE/WBE/SPSF Utilization: Dovetail Cultural Resource Group, Inc
1% / \$15,000.00
DBE/WBE/SPSF Utilization: Wetherill Engineering, Inc.
4% / \$60,000.00

DIVISION 8

Description of Work: 2017 On-Call General Engineering Services for
Division-Managed Projects LSC
Firm: Rummel Klepper & Kahl LLP, Raleigh, NC
Original Engineering Fee: \$1,000,000.00
Supplemental Fee: \$1,500,000.00
SPSF Utilization: Calyx Engineers and Consultants
2% / \$30,000.00
DBE/WBE/SPSF Utilization: Three Oaks Engineering
1% / \$15,000.00

Description of Work: 2017 On-Call General Engineering Services for
Division-Managed Projects LSC
Firm: H. W. Lochner, Inc., Raleigh, NC
Original Engineering Fee: \$1,000,000.00
Supplemental Fee: \$1,500,000.00
SPSF Utilization: Sungate Design Group PA
8% / \$120,000.00
DBE/WBE/SPSF Utilization: Ecological Engineering LLP
12% / \$180,000.00
DBE/WBE/SPSF Utilization: Falcon Engineering Inc
4% / \$60,000.00
SPSF Utilization: Commonwealth Heritage Group, Inc
1% / \$15,000.00

Description of Work: 2017 On-Call General Engineering Services for
Division-Managed Projects LSC
Firm: VHB Engineering NC PC, Watertown, MA
Original Engineering Fee: \$1,000,000.00
Supplemental Fee: \$1,500,000.00
SPSF Utilization: Carolina Land Acquisitions Inc
2% / \$30,000.00
DBE/WBE/SPSF Utilization: Falcon Engineering Inc
2% / \$30,000.00
SPSF Utilization: Hinde Engineering Inc
2% / \$30,000.00
DBE/SPSF Utilization: MI Engineering, PLLC
3% / \$45,000.00
SPSF Utilization: Sungate Design Group PA
3% / \$45,000.00
SPSF Utilization: TGS Engineers
3% / \$45,000.00

DIVISION 9

Description of Work: 2017 On-Call General Engineering Services for
Division-Managed Projects LSC
Firm: Dewberry Engineers Inc, Raleigh, NC
Original Engineering Fee: \$1,000,000.00
Supplemental Fee: \$1,500,000.00
DBE/WBE/SPSF Utilization: Planning Communities, LLC
5% / \$75,000.00
SPSF Utilization: Patriot Transportation Engineering PLLC
5% / \$75,000.00

Description of Work: 2017 On-Call General Engineering Services for
Division-Managed Projects LSC
Firm: Rummel Klepper & Kahl LLP, Raleigh, NC
Original Engineering Fee: \$1,000,000.00
Supplemental Fee: \$1,500,000.00
SPSF Utilization: Calyx Engineers and Consultants
2% / \$30,000.00
DBE/WBE/SPSF Utilization: Three Oaks Engineering
1% / \$15,000.00

Description of Work: 2017 On-Call General Engineering Services for
Division-Managed Projects LSC
Firm: Mott MacDonald I&E LLC, Pittsburgh, PA
Original Engineering Fee: \$1,000,000.00
Supplemental Fee: \$1,500,000.00
DBE/WBE/SPSF Utilization: Ecological Engineering LLP
3% / \$45,000.00
SPSF Utilization: Carolina Ecosystems Inc
1% / \$15,000.00
DBE/WBE/SPSF Utilization: Falcon Engineering Inc
1% / \$15,000.00
DBE/WBE/SPSF Utilization: Dovetail Cultural Resource Group | Inc
1% / \$15,000.00
DBE/WBE/SPSF Utilization: Wetherill Engineering, Inc.
4% / \$60,000.00

Description of Work: 2017 On-Call General Engineering Services for
Division-Managed Projects LSC
Firm: RS&H Architects-Engineers-Planners, Inc., Charlotte,
NC
Original Engineering Fee: \$1,000,000.00
Supplemental Fee: \$1,500,000.00
SPSF Utilization: Carolina Ecosystems Inc
3% / \$45,000.00

Description of Work: 2017 On-Call General Engineering Services for
Division-Managed Projects LSC
Firm: Transystems Corporation, Chicago, IL
Original Engineering Fee: \$500,000.00
Supplemental Fee: \$500,000.00
SPSF Utilization: Sungate Design Group PA
10% / \$50,000.00

DIVISION 10

Description of Work: 2017 On-Call General Engineering Services for
Division-Managed Projects LSC
Firm: Atkins North America Inc, Raleigh, NC
Original Engineering Fee: \$1,000,000.00
Supplemental Fee: \$1,500,000.00
SPSF Utilization: Commonwealth Heritage Group, Inc
2% / \$30,000.00

Description of Work: 2017 On-Call General Engineering Services for
Division-Managed Projects LSC
Firm: Rummel Klepper & Kahl LLP, Raleigh, NC
Original Engineering Fee: \$500,000.00
Supplemental Fee: \$500,000.00
SPSF Utilization: Calyx Engineers and Consultants
2% / \$10,000.00
DBE/WBE/SPSF Utilization: Three Oaks Engineering
1% / \$5,000.00

Description of Work: 2017 On-Call General Engineering Services for
Division-Managed Projects LSC
Firm: STV Engineers, Inc., Charlotte, NC
Original Engineering Fee: \$1,000,000.00
Supplemental Fee: \$1,500,000.00
DBE/WBE/SPSF Utilization: Mattson, Alexander and Associates, Inc.
1% / \$15,000.00
SPSF Utilization: Progressive Design Group, Inc.
5% / \$75,000.00
DBE/MBE/SPSF Utilization: Tech Engineering Group PLLC
2% / \$30,000.00

Description of Work: 2017 On-Call General Engineering Services for
Division-Managed Projects LSC
Firm: WSP USA Inc, Raleigh, NC
Original Engineering Fee: \$1,000,000.00
Supplemental Fee: \$1,500,000.00
SPSF Utilization: Utility Coordination Consultants
3% / \$45,000.00
SPSF Utilization: Commonwealth Heritage Group, Inc
2% / \$30,000.00
DBE/WBE/SPSF Utilization: Susan Hatchell Landscape Architecture PLLC
1% / \$15,000.00
SPSF Utilization: Spanishspeaking, LLC
1% / \$15,000.00

Description of Work: 2017 On-Call General Engineering Services for
Division-Managed Projects LSC
Firm: DRMP, Inc., Charlotte, NC
Original Engineering Fee: \$1,000,000.00
Supplemental Fee: \$1,500,000.00
SPSF Utilization: Hinde Engineering Inc
2% / \$30,000.00

DIVISION 11

Description of Work: 2017 On-Call General Engineering Services for
Division-Managed Projects LSC
Firm: TGS Engineers, Shelby, NC
Original Engineering Fee: \$1,000,000.00
Supplemental Fee: \$1,500,000.00
SPSF Utilization: 100%

Description of Work: 2017 On-Call General Engineering Services for
Division-Managed Projects LSC
Firm: Wetherill Engineering, Inc., Raleigh, NC
Original Engineering Fee: \$1,000,000.00
Supplemental Fee: \$1,500,000.00
DBE/WBE/SPSF Utilization: 100%

Description of Work: 2017 On-Call General Engineering Services for
Division-Managed Projects LSC
Firm: Kisinger Campo & Associates Corp, Tampa, FL
Original Engineering Fee: \$1,000,000.00
Supplemental Fee: \$1,500,000.00
DBE/WBE/SPSF Utilization: Ecological Engineering LLP
4% / \$60,000.00
SPSF Utilization: Ramey Kemp & Associates, Inc.
4% / \$60,000.00
SPSF Utilization: TGS Engineers
4% / \$60,000.00
DBE/WBE/SPSF Utilization: Three Oaks Engineering
4% / \$60,000.00

DIVISION 12

Description of Work: 2017 On-Call General Engineering Services for
Division-Managed Projects LSC
Firm: A. Morton Thomas & Associates Inc, Raleigh, NC
Original Engineering Fee: \$1,000,000.00
Supplemental Fee: \$1,500,000.00
SPSF Utilization: Carolina Ecosystems Inc
5% / \$75,000.00
DBE/MBE/SPSF Utilization: Davenport
15% / \$225,000.00

Description of Work: 2017 On-Call General Engineering Services for
Division-Managed Projects LSC
Firm: CDM Smith Inc, Raleigh, NC
Original Engineering Fee: \$1,000,000.00
Supplemental Fee: \$1,500,000.00
SPSF Utilization: Summit Design and Engineering Services, PLLC
12% / \$180,000.00
DBE/SPSF Utilization: MI Engineering, PLLC
7% / \$105,000.00

Description of Work: 2017 On-Call General Engineering Services for
Division-Managed Projects LSC
Firm: Mott MacDonald I&E LLC, Pittsburgh, PA
Original Engineering Fee: \$500,000.00
Supplemental Fee: \$500,000.00
DBE/WBE/SPSF Utilization: Ecological Engineering LLP
3% / \$15,000.00
SPSF Utilization: Carolina Ecosystems Inc
1% / \$5,000.00
DBE/WBE/SPSF Utilization: Falcon Engineering Inc
1% / \$5,000.00
DBE/WBE/SPSF Utilization: Dovetail Cultural Resource Group | Inc
1% / \$5,000.00
DBE/WBE/SPSF Utilization: Wetherill Engineering, Inc.
4% / \$20,000.00

Description of Work: 2017 On-Call General Engineering Services for
Division-Managed Projects LSC
Firm: Stantec Consulting Services Inc, Chicago, IL
Original Engineering Fee: \$1,000,000.00
Supplemental Fee: \$1,500,000.00
DBE/WBE/SPSF Utilization: Falcon Engineering Inc
4% / \$60,000.00
DBE/SPSF Utilization: MI Engineering, PLLC
5% / \$75,000.00

DIVISION 13

Description of Work: 2017 On-Call General Engineering Services for
Division-Managed Projects LSC
Firm: Atkins North America Inc, Raleigh, NC
Original Engineering Fee: \$1,000,000.00
Supplemental Fee: \$1,500,000.00
SPSF Utilization: Commonwealth Heritage Group, Inc
2% / \$30,000.00

Description of Work: 2017 On-Call General Engineering Services for
Division-Managed Projects LSC
Firm: Calyx Engineers and Consultants, Raleigh, NC
Original Engineering Fee: \$1,000,000.00
Supplemental Fee: \$1,500,000.00
SPSF Utilization: 100%

Description of Work: 2017 On-Call General Engineering Services for
Division-Managed Projects LSC
Firm: ICE of Carolinas PLLC, North Charleston, SC
Original Engineering Fee: \$500,000.00
Supplemental Fee: \$500,000.00
DBE/WBE/SPSF Utilization: CH Engineering PLLC
5% / \$25,000.00
SPSF Utilization: Progressive Design Group, Inc.
5% / \$25,000.00
DBE/WBE/SPSF Utilization: Ecological Engineering LLP
10% / \$50,000.00

Description of Work: 2017 On-Call General Engineering Services for
Division-Managed Projects LSC
Firm: KCI Associates of North Carolina PA, Baltimore, MD
Original Engineering Fee: \$1,000,000.00
Supplemental Fee: \$1,500,000.00
DBE/MBE/SPSF Utilization: Accelerate Engineering PLLC
10% / \$150,000.00
DBE/WBE/SPSF Utilization: Planning Communities, LLC
15% / \$225,000.00
SPSF Utilization: Sungate Design Group PA
10% / \$150,000.00

Description of Work: 2017 On-Call General Engineering Services for
Division-Managed Projects LSC
Firm: MS Consultants Inc, Youngstown, OH
Original Engineering Fee: \$500,000.00
Supplemental Fee: \$500,000.00
DBE/WBE/SPSF Utilization: Falcon Engineering Inc
10% / \$50,000.00

DIVISION 14

Description of Work: 2017 On-Call General Engineering Services for
Division-Managed Projects LSC
Firm: TGS Engineers, Shelby, NC
Original Engineering Fee: \$500,000.00
Supplemental Fee: \$500,000.00
SPSF Utilization: 100%

Description of Work: 2017 On-Call General Engineering Services for
Division-Managed Projects LSC
Firm: Kimley-Horn & Associates, Inc, Raleigh, NC
Original Engineering Fee: \$500,000.00
Supplemental Fee: \$500,000.00
SPSF Utilization: 0%

Description of Work: 2017 On-Call General Engineering Services for
Division-Managed Projects LSC
Firm: Vaughn & Melton Consulting Engineers Inc,
Asheville, NC
Original Engineering Fee: \$1,000,000.00
Supplemental Fee: \$1,500,000.00
DBE/WBE/SPSF Utilization: Ecological Engineering LLP
9% / \$135,000.00
SPSF Utilization: Carolina Transportation Engineers & Associates, PC
8% / \$120,000.00

Description of Work: 2017 On-Call General Engineering Services for
Division-Managed Projects LSC
Firm: Johnson, Mirmiran & Thompson, Inc., Hunt Valley,
MD
Original Engineering Fee: \$500,000.00
Supplemental Fee: \$500,000.00
DBE/WBE/SPSF Utilization: Ecological Engineering LLP
2% / \$10,000.00
DBE/MBE/SPSF Utilization: Neighborhood Solutions LLC
2% / \$10,000.00
SPSF Utilization: Ramey Kemp & Associates, Inc.
4% / \$20,000.00
DBE/MBE/SPSF Utilization: Tech Engineering Group PLLC
2% / \$10,000.00
SPSF Utilization: Utility Coordination Consultants
2% / \$10,000.00

Description of Work:	2017 On-Call General Engineering Services for Division-Managed Projects LSC
Firm:	Stewart, Philadelphia, PA
Original Engineering Fee:	\$1,000,000.00
Supplemental Fee:	\$1,500,000.00
SPSF Utilization:	100%

Technical Services

Geotechnical Engineering Unit

After careful evaluation of the workload and schedules of the work that can be accomplished by our staff, it was determined necessary to employ private firms for Geotechnical, GeoEnvironmental, Geophysical, and Foundation Testing Services on an as needed basis for various federal-aid and state funded projects to support the Geotechnical Engineering Unit. These contracts will expire two (2) years with an optional one (1) year extension possible after the date of execution or after the contract amount has been depleted, whichever occurs first. Our staff has completed the actions for employing private firms in accordance with the policies and procedures adopted by the Board on May 7, 2009. These are for information only.

STATEWIDE

Description of Work:	2017 Geotechnical, GeoEnvironmental, Geophysical, and Foundation Testing Services LSC
Firm:	Applied Foundation Testing, PLLC, Raleigh, NC
Maximum Engineering Fee:	\$400,000.00
SPSF Utilization:	100%

Description of Work:	2017 Geotechnical, GeoEnvironmental, Geophysical, and Foundation Testing Services LSC
Firm:	Schnabel Engineering South PC, Merrifield, VA
Maximum Engineering Fee:	\$400,000.00
SPSF Utilization:	0%

Description of Work:	2017 Geotechnical, GeoEnvironmental, Geophysical, and Foundation Testing Services LSC
Firm:	Kleinfelder Inc, Los Angeles, CA
Maximum Engineering Fee:	\$4,000,000.00
SPSF Utilization :	Pyramid Environmental & Engineering PC 2% / \$80,000.00

Description of Work:	2017 Geotechnical, GeoEnvironmental, Geophysical, and Foundation Testing Services LSC
Firm:	Froehling & Robertson Inc, Raleigh, NC
Maximum Engineering Fee:	\$3,500,000.00
SPSF Utilization:	0%

Description of Work:	2017 Geotechnical, GeoEnvironmental, Geophysical, and Foundation Testing Services LSC
Firm:	HDR Engineering Inc of the Carolinas, Chicago, IL
Maximum Engineering Fee:	\$2,000,000.00
SPSF Utilization:	0%

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Description of Work: 2017 Geotechnical, GeoEnvironmental, Geophysical,
and Foundation Testing Services LSC
Firm: GEL Engineering of NC Inc, Charleston, SC
Maximum Engineering Fee: \$1,000,000.00
SPSF Utilization : 0%

Description of Work: 2017 Geotechnical, GeoEnvironmental, Geophysical,
and Foundation Testing Services LSC
Firm: Pyramid Environmental & Engineering PC,
Greensboro, NC
Maximum Engineering Fee: \$1,000,000.00
SPSF Utilization: 100%

Description of Work: 2017 Geotechnical, GeoEnvironmental, Geophysical,
and Foundation Testing Services LSC
Firm: AMEC Foster Wheeler Environment & Infrastructure,
Inc., Durham, NC
Maximum Engineering Fee: \$2,000,000.00
SPSF Utilization: 0%

Description of Work: 2017 Geotechnical, GeoEnvironmental, Geophysical,
and Foundation Testing Services LSC
Firm: Hart & Hickman PC, Charlotte, NC
Maximum Engineering Fee: \$1,000,000.00
SPSF Utilization : 0%

Description of Work: 2017 Geotechnical, GeoEnvironmental, Geophysical,
and Foundation Testing Services LSC
Firm: Catlin Engineers and Scientists, Wilmington, NC
Maximum Engineering Fee: \$4,000,000.00
SPSF Utilization: 100%

Description of Work: 2017 Geotechnical, GeoEnvironmental, Geophysical,
and Foundation Testing Services LSC
Firm: Mid Atlantic Associates Inc, Raleigh, NC
Maximum Engineering Fee: \$1,000,000.00
SPSF Utilization: 100%

Description of Work: 2017 Geotechnical, GeoEnvironmental, Geophysical,
and Foundation Testing Services LSC
Firm: Geosyntec Consultants of NC PC, Boca Raton, FL
Maximum Engineering Fee: \$1,000,000.00
SPSF Utilization : 0%

Description of Work: 2017 Geotechnical, GeoEnvironmental, Geophysical,
and Foundation Testing Services LSC
Firm: ICE of Carolinas ,PLLC, North Charleston, SC
Maximum Engineering Fee: \$1,000,000.00
SPSF Utilization: 0%

Description of Work: 2017 Geotechnical, GeoEnvironmental, Geophysical, and Foundation Testing Services LSC
Firm: Summit Design and Engineering Services, PLLC, Hillsborough, NC
Maximum Engineering Fee: \$3,000,000.00
SPSF Utilization: 100%

Description of Work: 2017 Geotechnical, GeoEnvironmental, Geophysical, and Foundation Testing Services LSC
Firm: ESP Associates PA, Charlotte, NC
Maximum Engineering Fee: \$3,000,000.00
SPSF Utilization : 0%

Description of Work: 2017 Geotechnical, GeoEnvironmental, Geophysical, and Foundation Testing Services LSC
Firm: ECS Southeast, LLP, Charlotte, NC
Maximum Engineering Fee: \$2,000,000.00
SPSF Utilization: 0%

Description of Work: 2017 Geotechnical, GeoEnvironmental, Geophysical, and Foundation Testing Services LSC
Firm: Rummel, Klepper & Kahl LLP, Raleigh, NC
Maximum Engineering Fee: \$1,000,000.00
SPSF Utilization: 0%

Description of Work: 2017 Geotechnical, GeoEnvironmental, Geophysical, and Foundation Testing Services LSC
Firm: Terracon Consultants Inc, Raleigh, NC
Maximum Engineering Fee: \$3,000,000.00
SPSF Utilization : Geophysical Survey Investigations PLLC
1% / \$30,000.00

Description of Work: 2017 Geotechnical, GeoEnvironmental, Geophysical, and Foundation Testing Services LSC
Firm: Falcon Engineering Inc, Raleigh, NC
Maximum Engineering Fee: \$2,000,000.00
DBE/WBE/SPSF Utilization: 100%

Description of Work: 2017 Geotechnical, GeoEnvironmental, Geophysical, and Foundation Testing Services LSC
Firm: S&ME Inc, Raleigh, NC
Maximum Engineering Fee: \$5,000,000.00
SPSF Utilization: 0%

Description of Work: 2017 Geotechnical, GeoEnvironmental, Geophysical, and Foundation Testing Services LSC
Firm: Apex Companies, LLC, Baltimore, MD
Maximum Engineering Fee: \$1,000,000.00
SPSF Utilization : 0%

Description of Work: 2017 Geotechnical, GeoEnvironmental, Geophysical, and Foundation Testing Services LSC
Firm: Duncklee & Dunham PC, Cary, NC
Maximum Engineering Fee: \$1,000,000.00
SPSF Utilization: 100%

Description of Work: 2017 Geotechnical, GeoEnvironmental, Geophysical, and Foundation Testing Services LSC
Firm: Highlands Environmental Solutions Inc, Raleigh, NC
Maximum Engineering Fee: \$1,000,000.00
SPSF Utilization: 0%

Description of Work: 2017 Geotechnical, GeoEnvironmental, Geophysical, and Foundation Testing Services LSC
Firm: Stewart, Philadelphia, PA
Maximum Engineering Fee: \$1,000,000.00
SPSF Utilization : 100%

Description of Work: 2017 Geotechnical, GeoEnvironmental, Geophysical, and Foundation Testing Services LSC
Firm: Geotechnical Environmental Testing Solutions Inc, Virginia Beach, VA
Maximum Engineering Fee: \$1,000,000.00
SPSF Utilization: 100%

Description of Work: 2017 Geotechnical, GeoEnvironmental, Geophysical, and Foundation Testing Services LSC
Firm: Draper Aden Associates Inc, Blacksburg, VA
Maximum Engineering Fee: \$1,000,000.00
SPSF Utilization : Pyramid Environmental & Engineering PC
10% / \$100,000.00

Description of Work: 2017 Geotechnical, GeoEnvironmental, Geophysical, and Foundation Testing Services LSC
Firm: GRL Engineers, Inc, Charlotte, NC
Maximum Engineering Fee: \$400,000.00
SPSF Utilization : 100%

Description of Work: 2017 Geotechnical, GeoEnvironmental, Geophysical, and Foundation Testing Services LSC
Firm: Seramur & Associates PC, Boone, NC
Maximum Engineering Fee: \$1,000,000.00
SPSF Utilization: 100%

Location & Surveys

The following are supplemental contracts to previous contracts approved by the Board with the same engineering firms. These supplemental contracts were necessary due to approved additional work that was unknown at the inception and is required of the firms to complete the project. Our staff has completed the actions in accordance with the policies and procedures adopted by the Board on May 7, 2009. These are for information only.

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STATEWIDE

Description of Work: 2017 Location & Surveys LSC
Firm: Cardno Inc, Dallas, TX
Original Engineering Fee: \$1,000,000.00
Supplemental Fee: \$1,000,000.00
SPSF Utilization: 0%

Description of Work: 2017 Location & Surveys LSC
Firm: DRMP Inc., Jacksonville, FL
Original Engineering Fee: \$1,000,000.00
Supplemental Fee: \$1,000,000.00
SPSF Utilization: 0%

Description of Work: 2017 Location & Surveys LSC
Firm: Johnson, Mirmiran & Thompson, Inc., Hunt Valley, MD
Original Engineering Fee: \$1,000,000.00
Supplemental Fee: \$1,000,000.00
SPSF Utilization: 0%

Description of Work: 2017 Location & Surveys LSC
Firm: KCI Associates of North Carolina PA, Baltimore, MD
Original Engineering Fee: \$1,000,000.00
Supplemental Fee: \$1,000,000.00
SPSF Utilization: 0%

Description of Work: 2017 Location & Surveys LSC
Firm: Stewart, Philadelphia, PA
Original Engineering Fee: \$1,000,000.00
Supplemental Fee: \$1,000,000.00
SPSF Utilization: 100%

Description of Work: 2017 Location & Surveys LSC
Firm: Wadelynn Geospatial, LLC, Garner, NC
Original Engineering Fee: \$1,000,000.00
Supplemental Fee: \$2,000,000.00
SPSF Utilization: 100%

Description of Work: 2017 Location & Surveys LSC
Firm: Wetherill Engineering, Inc., Raleigh, NC
Original Engineering Fee: \$1,500,000.00
Previous Supplemental Fee: \$1,500,000.00
Supplemental Fee: \$1,000,000.00
DBE/WBE/SPSF Utilization: 100%

Description of Work: 2017 Location & Surveys LSC
Firm: WithersRavenel, Inc., Cary, NC
Original Engineering Fee: \$1,000,000.00
Supplemental Fee: \$1,000,000.00
SPSF Utilization: 0%

Natural Environment

The following are supplemental contracts to previous contracts approved by the Board with the same engineering firms. These supplemental contracts were necessary due to approved additional work that was unknown at the inception and is required of the firms to complete the project. Our staff has completed the actions in accordance with the policies and procedures adopted by the Board on May 7, 2009. These are for information only.

STATEWIDE

Description of Work:	2015 Natural Environmental Services LSC
Firm:	Three Oaks Engineering, Durham, NC
Original Engineering Fee:	\$1,000,000.00
Previous Supplemental Fee:	\$2,000,000.00
Supplemental Fee:	\$1,000,000.00
DBE/WBE/SPSF Utilization:	100%
Description of Work:	2015 Natural Environmental Services LSC
Firm:	KCI Associates of North Carolina PA, Baltimore, MD
Original Engineering Fee:	\$600,000.00
Supplemental Fee:	\$500,000.00
SPSF Utilization:	0%
Description of Work:	2015 Natural Environmental Services LSC
Firm:	McCormick Taylor Inc, Harrisburg, PA
Original Engineering Fee:	\$300,000.00
Previous Supplemental Fee:	\$600,000.00
Supplemental Fee:	\$500,000.00
SPSF Utilization:	Alderman Environmental Services, Inc. 15% / \$75,000.00
SPSF Utilization:	Axiom Environmental, Inc. 5% / \$25,000.00
Description of Work:	2015 Natural Environmental Services LSC
Firm:	HDR Engineering Inc of the Carolinas, Chicago, IL
Original Engineering Fee:	\$1,000,000.00
Supplemental Fee:	\$500,000.00
SPSF Utilization:	CZR Incorporated 12% / \$60,000.00
Description of Work:	2015 Natural Environmental Services LSC
Firm:	Rummel, Klepper & Kahl LLP, Raleigh, NC
Original Engineering Fee:	\$1,000,000.00
Previous Supplemental Fee:	\$1,600,000.00
Supplemental Fee:	\$1,500,000.00
DBE/WBE/SPSF Utilization:	Three Oaks Engineering 2% / \$30,000.00

Design-Build

The Secretary of Transportation awarded a Design-Build contract in July 2017 for the I-40 Pavement Rehabilitation and construction of additional lanes from West of NC 801 in Davie County to East of SR 1101 (Harper Road/Tanglewood Business Park Road) in Forsyth County. In accordance with the policies and procedures adopted by the Board, a Design-Build team who was not awarded the project can request payment of a stipend to recover part of the expense of preparation of their proposal. We have received a request for payment of the stipend from the following firms. These are for information only.

DIVISION 9

Project: (34147.3.4) (I-0911A)
Firm: United Infrastructure Group Inc., Great Falls, SC
Stipend Amount: \$70,000.00
SPSF Utilization: 0%

Project: (34147.3.4) (I-0911A)
Firm: The Lane Construction Corporation, Cheshire, CT
Stipend Amount: \$70,000.00
SPSF Utilization: 0%

Turnpike Authority

The following is a supplemental contract to a previous contract approved by the Board with the same engineering firm. This supplemental contract was necessary due to approved additional work that was unknown at the inception and is required of the firm to complete the project. Our staff has completed the actions in accordance with the policies and procedures adopted by the Board on May 7, 2009. This is for information only.

STATEWIDE

Description of Work: 2015 NCTA Traffic and Revenue Service LSC
Firm: Stantec Consulting Services Inc, Chicago, IL
Original Engineering Fee: \$3,000,000.00
Supplemental Fee: \$1,000,000.00
SPSF Utilization: Patriot Transportation Engineering PLLC
3% / \$30,000.00

**NCDOT OCTOBER 2017 BOARD OF TRANSPORTATION AGENDA
Secondary Road Improvement Projects (Highway and Trust Funds)**

There will be no Secondary Road Improvement Projects submitted to the Board for approval at the October 2017 Board meeting.

NCDOT October 2017 Board of Transportation Agenda

Road Additions:

County	Pet. No.	Length (Miles)	Description	Date of Report
Division 1				
Currituck	51447	0.10	East Point Estates Subdivision East Point Estates Court	2/4/16
Pasquotank	51448	0.06 1.22	Orchard Cove Subdivision Kiwi Court Orchard Drive	7/26/17
Pasquotank	51449	0.38	Queenswood Subdivision Princess Anne Circle, SR 1259 Ext.	8/29/17
Division 3				
New Hanover	51450	0.03	Arrowhead Subdivision Lorraine Drive	8/28/17
New Hanover	51451	0.21	North Hills Subdivision Pages Creek Drive	8/14/17
Onslow	51452	0.68	Blue Top Road	8/10/17
Onslow	51453	0.09 0.34	Bradham Place Subdivision Walter Drive Mewborn Drive	8/10/17
Onslow	51454	0.13 0.06 0.04 0.38 0.04 0.09	Bridgeport Subdivision Deep Inlet Drive Great Harbor Court Bridgeport Drive Breakwater Drive Shallow Court Misty Cove Court	8/17/17
Onslow	51455	0.15	Camden Woods Subdivision Mango Place North	9/7/17
Onslow	51456	0.06	Fullards Landing Subdivision Grangers Court	8/14/17
Onslow	51457	0.11 0.03 0.26 0.09 0.03 0.19	Monarch Meadow at Carolina Plantations Subdivision Periwinkle Court Dahlia Court Dynamo Lane Dahlia Lane Mariposa Court Arabella Drive	9/1/17

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NCDOT October 2017 Board of Transportation Agenda

Road Additions:

County	Pet. No.	Length (Miles)	Description	Date of Report
Division 3				
Onslow	51458		The Farm at Hunters Creek Subdivision	8/17/17
		0.06	Longhorn Road	
		0.17	Dairy Farm Road	
Division 4				
Halifax	51459		Lake Shores Subdivision	8/15/17
		0.04	Unnamed Road	
Johnston	51460		Williams Farm Subdivision	7/6/17
		0.23	Tedpace Street	
Division 5				
Granville	51461		Preserve at Smith Creek Subdivision	8/11/17
		0.32	New Grissom Way	
		0.08	Claude Court	
		0.33	Bragg Valley Lane	
Division 7				
Caswell	51462		Caswell Pines Subdivision	5/26/17
		0.99	Clubhouse Drive	
Guilford	51463		Bear Creek Subdivision	7/11/17
		0.37	Koala Drive	
		0.09	Polar Drive	
		0.07	Panda Court	
Division 9				
Davidson	51464		Sunset Ridge Subdivision	7/14/17
		0.55	Sunset Ridge Lane	
		0.15	Double Spring Lane	
		0.05	High Ridge Court	
		0.06	Koontz Farm Drive	
		0.05	Godfrey Court	
		0.13	Old Walnut Lane	
Division 10				
Union	51465		Hollister Subdivision	5/24/17
		0.08	Wild Laurel Court	
Division 12				
Lincoln	51466		Lincoln County Industrial Park	1/25/17
		0.43	Lincoln County Parkway, SR 2015 Ext.	
		0.41	Lincoln County Parkway, SR 2015 Ext.	
		0.24	East Powell Drive	

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NCDOT October 2017 Board of Transportation Agenda

Road Additions:

County	Pet. No.	Length (Miles)	Description	Date of Report
Division 13 Buncombe	51467	0.19	Glen Coe Subdivision Glen Coe Drive	8/11/17
Mitchell	51468	0.13	Forest Service Road	8/23/17

Deletions:

County	Pet. No.	Length (Miles)	Description	Date of Report
Division 2 Carteret	51469	0.04	Portion of SR 1213 South Lewis Street	4/4/17
Division 8 Montgomery	51470	0.05	SR 1229 Lilly's Bridge Road	8/17/17
Division 10 Cabarrus	51471	0.26	Portion of SR 1138 Hickory Ridge Road	
Cabarrus	51472	0.20	SR 1163 School Circle	5/26/17
Cabarrus	51473	0.43	Portion of SR 1166 Robinson Church Road	5/26/17
Union	51474	0.35	SR 2677 Deer Creek Drive	7/21/17
		0.06	SR 2678 Doe Lane	

Summary: **Number of Roads Petitioned for Addition – 46**
Number of Roads Petitioned for Abandonment – 7

October 5, 2017

NCDOT October 2017 Board of Transportation Agenda**Corrections:**

Division 3 – Onslow County Petition 51418:

Extended SR 2747, Sonoma Road for 0.27 miles. The correct mileage should be 0.33 miles.

Added Merin Height Road for 0.32 miles. The correct mileage should be 0.33 miles.

Added Arabella Drive 0.28 miles. The correct mileage should be 0.27 miles.

Added Solomon Drive for 0.39. The correct mileage should be 0.38 miles.

Division 8 – Hoke County Petition 51229 extended SR 1777, Maria Drive for 0.11 miles. The correct mileage should be 0.16.

Division 8 – Lee County Petition 51083 extended SR 1484, Doe Run Drive for 0.10 miles. The correct mileage should be 0.07 miles.

Division 8 – Randolph County Petition 51124 abandoned SR 1168, Bingham Loflin Road for 0.09 miles. The correct length should be 0.06.

Division 10 – Mecklenburg County Petition 51386 extended SR 2140, Stumptown Road for 0.25 miles. This was to be an addition, not an extension.

Division 11 – Petition 51263 should not have been listed on the September 2017 Agenda.

NCDOT OCTOBER 2017 BOARD OF TRANSPORTATION AGENDA
Funds Request
Division-wide Small Construction, Statewide Contingency,
Public Access, Economic Development

According to Executive Order No. 2 and G.S. 143B-350(g), the Board is requested to concur with staff recommendation and delegate authority to the Secretary to approve funds for specific Division-wide Small Construction / Statewide Contingency projects.

County	Description	Type	Amount
Div 2 Pitt	Town of Ayden – Increase on-site traffic storage area at Ayden Elementary School WBS 49028	Contingency TOTAL	\$220,000.00 \$220,000.00
Div 3 Onslow	City of Jacksonville - Revise pavement markings on Jacksonville Pkwy (SR 2714) at the intersection with Western Blvd (NC 53) WBS 47687	Small Construction TOTAL	\$10,000.00 \$10,000.00
Div 4 Halifax	Town of Littleton – Replace guardrail along US 158. WBS 80048	Contingency TOTAL	\$40,000.00 \$40,000.00
Div 7 Guilford	Town of Jamestown - Install Sidewalks along both sides of East Main St (SR 4121) from Millis Rd (SR 1357) to Jamestown Pkwy WBS 47499	Contingency TOTAL	\$70,000.00 \$70,000.00
Div 9 Forsyth	City of Winston-Salem – Pedestrian Improvements on Cloverdale Ave and Miller St in Winston-Salem WBS 44610 – Increase Funds	Contingency TOTAL	\$250,000.00 \$250,000.00
Div 10 Union	Roadway and drainage repairs along Zion Church Rd (SR 1920) south of State Line Rd (SR 1921) WBS 47639	Contingency TOTAL	\$118,100.00 \$118,100.00

**NCDOT OCTOBER 2017 BOARD OF TRANSPORTATION AGENDA
Funds Request
Division-wide Small Construction, Statewide Contingency,
Public Access, Economic Development**

County	Description	Type	Amount
Div 12 Catawba	City of Claremont - Grade, Drain, Base & Pave approx. 1400' of industrial access road for new industrial facility. Project Longbow. Request for additional funds. WBS 45858	Economic Development	\$70,000.00
		<u>TOTAL</u>	<u>\$70,000.00</u>
Div 14 Henderson	Install actuated flasher at the intersection of Hooper's Creek Rd (SR 1569) and Terry's Gap Rd (SR 1565) WBS 44777 - Increase & close	Small Construction	\$10,132.52
		<u>TOTAL</u>	<u>\$10,132.52</u>

Summary:

Number of Divisions	8
Number of Projects	8
Small Construction Commitment	\$20,132.52
Public Access Commitment	\$0.00
Contingency Commitment	\$698,100.00
Economic Development	\$70,000.00
TOTAL	\$788,232.52

Town/County Division	5311 Capital (Amendment)	Estimated Cost	
1	18-CT-025 Hyde County Non-Profit Private Transportation Corporation recently became a regional system by adding Tyrrell County to their service area. They will use the Capital funds to purchase (1) 20' Light Transit Vehicle, (1) 20' Light Transit Vehicle w/Lift with (2) lettering and logos and a replacement camera system; 1 desk, filing cabinet and copier table; 2 copiers, 3 cell phones for drivers; 1 new computer system, Microsoft Office 2013, and printer for a new position; and updated accounting software.	\$ 122,790	Total
		\$ 98,232	Federal
		\$ 12,279	State
		\$ 12,279	Local
11	18-CT-060 Jackson County: adding additional Funding for a Propane Bi-fuel Upfit for a raised roof van.	\$ 6,996	Total
		\$ 5,596	Federal
		\$ 700	State
		\$ 700	Local

Item I - 1, 2 Project(s), Total Federal/State Funds \$ 116,807

*STI projects funded through the Highway Trust Fund are approved by the BOT on Item K

ADDITIONS to the Transit 2018-2027 STIP

STIP #	Transit Partner	DESCRIPTION	match	FUND	FY18 (000)	FY19 (000)	FY20 (000)	FY21 (000)	FY22 (000)	FY23 (000)	FY24 (000)	FY25 (000)
TA-6685	Western Piedmont Regional Transit Authority	35 Ft. Replacement Bus	STPDA	STPDA	270							
			Local	L	68							
TO-6145	PART	Expansion of service on Route 4	5307	CMAQ	173							
			Local	L	44							
TA-6684	GTA	GTA Electric Bus Replacement: Purchase of Electric Transit Bus	5307	CMAQ	1908	1946						
			Local	L	477	486						

MODIFICATIONS to the Transit 2018-2027 STIP

STIP #	Transit Partner	DESCRIPTION	match	FUND	FY18 (000)	FY19 (000)	FY20 (000)	FY21 (000)	FY22 (000)	FY23 (000)	FY24 (000)	FY25 (000)
TD-5279	Greensboro Transit Authority	Renovation of Ticketing Call center and waiting areas of the J. Douglas Gaylon Bus Station	Local	L		142						
			5307	FBUS		960						
			STAT	T		142						
TO-5134	PART	Operating	5307	CMAQ	250	250	250	250	250	250	250	250
			Local	L	250	250	250	250	250	250	250	250
TO-5134C	Piedmont Authority for Regional Transportation	Operating Assistance	5307	FUZ	400	400	400	400	400	400	400	400
			Local	L	400	400	400	400	400	400	400	400
TG-6137B	Piedmont Authority for Regional Transportation	Routine Capital, Passenger amenities, parts, equipment, preventive maintenance and capital cost of contracting	FUZ	5307	100	100	100	100	100	100	100	100
			Local	L	25	25	25	25	25	25	25	25
TO-5137 A	CATS	Operating Assistance-LYNX Blue Line Startup Operational Support CMAQ APP	5307	CMAQ	4000	4000						
			Local	L	9800	9800						
TD-5289	GO Raleigh	CNG Fueling- Add compressed Natural Gas (CNG) fueling station to GoRaleigh's Poole Rd. Bus Maintenance Facility (PE)	STPDA	STPDA	245							
			Local	L	62							

TD-5289	GO Raleigh	CNG Fueling- Add compressed Natural Gas (CNG) fueling station to GoRaleigh's Poole Rd. Bus Maintenance Facility (CON)	STPDA	STPDA	2516								
			Local	L	629								

ADMINISTRATIVE MODIFICATIONS to the Transit 2018-2027 STIP

STIP #	Transit Partner	DESCRIPTION	match	FUND	FY18 (000)	FY19 (000)	FY20 (000)	FY21 (000)	FY22 (000)	FY23 (000)	FY24 (000)	FY25 (000)
TA-6676	Transportation Lincoln County	Purchase Expansion Vehicle	FED	FNU	56							
			Local	L	7							
			STAT	T	7							

ADMINISTRATIVE MODIFICATIONS to the Transit 2016-2025 STIP

STIP #	Transit Partner	DESCRIPTION	match	FUND	FY17 (000)	FY18 (000)	FY19 (000)	FY20 (000)	FY21 (000)	FY22 (000)	FY23 (000)	FY24 (000)	FY25 (000)
TQ-6957	CRTPO	Operating Project for Enhanced Mobility of Seniors and individuals with Disabilities		FEPD	327								
			Local	L	327								
TQ-7009	CRTPO	Administrative Oversight for 5310		FEPD	160								
TQ-9003	CRTPO	Enhanced Mobility for Seniors and individuals with Disabilities		FEPD	1120								
			Local	L	280								
TO-5218	Gastonia Transit	Operational Assistance for Gastonia Express Mid Day Route	FED	CMAQ	180								
			Local	L	45								
TA-5201	Gastonia Transit	Bus Replacement Project for Gastonia Express Mid Day Route	FED	CMAQ	120								
			Local	L	30								
TG-6137B	Piedmont Authority for Regional Transportation	Routine Capital, Passenger amenities, parts, equipment, preventive maintenance and capital cost of contracting	FUZ	5307	100	100	100	100	100	100	100	100	100
			Local	L	25	25	25	25	25	25	25	25	25

- TG-5235 Correction to Database: MPO/RPO from Raleigh (CAMPO) to Durham/Chapel Hill/Carboro (DCHC) from April 2017 Board Amendment.

Deletions to the Transit 2018-2027 STIP

STIP #	Transit Partner	DESCRIPTION	match	FUND	FY18 (000)	FY19 (000)	FY20 (000)	FY21 (000)	FY22 (000)	FY23 (000)	FY24 (000)	FY25 (000)
TD-5288	Greensboro Transit Authority	RENOVATION OF J. DOUGLAS GALYON DEPOT .	Local	L		142						
			5307	FBUS		960						
			STAT	T		142						

Item I-1A, 18 Projects, Total Federal/State funds \$26,132,000

**NCDOT October 2017 Board of Transportation Agenda
Rail Program**

Town/County Division	Project Description	Estimated Cost
Division 10 Mecklenburg County Y-5500JA 80000.2.1.4	The Rail Division requests reallocation of Freight Rail & Rail Crossing Safety Improvement (FRRCSI) funds from the Doster Private Crossing Closure (project complete) to the closure of a private at-grade crossing that serves John B. Stroup and Hazline H. Stroup; crossing number 715 338M, milepost Main 367.00 (Caldwell Park Drive). Project will also include the construction of an alternate access driveway to Caldwell Park Drive. The Department will be responsible for the construction of the project. The total estimated cost to the Department is \$1,500,000.	\$1,500,000

ITEM I-2 SUMMARY – 1 PROJECT – \$1,500,000 (TOTAL FEDERAL AND STATE)

NCDOT October 2017 Board of Transportation Agenda

Bike & Pedestrian Program

**Town/County
Division**

Project Description

**Estimated
Cost**

There will be no items presented for approval at the October 5, 2017 Board of Transportation meeting.

ITEM I-3 SUMMARY – NO PROJECTS

NCDOT October 2017 Board of Transportation Agenda

Aviation Program

Town/County Division	Project Description
Division 06 Fayetteville Regional Airport	CONSTRUCT - TERMINAL IMPROVEMENTS - PART I The airport is requesting to use their full amount of SFY 18 and SFY 19 appropriated state commercial service airport funds (\$1,139,670 per year) to match FAA Airport Improvement Program (AIP) funds. The request is to provide the airport their SFY 19 funds now, instead of waiting until SFY 19. The amount to be cash flowed early is \$1,139,670. (THIS CASH FLOW REQUEST IS FOR THE \$9,000 DIFFERENCE FROM THE APPROVED SEPTEMBER REQUEST) WBS 36244.27.14.1
Division 06 Columbus County Municipal Airport	RUNWAY 6-24 REHABILITATION Pavement rehabilitation of Runway 6-24 in order to prevent further deterioration of pavement condition and meet operational needs. Pavement Condition Index (PCI) is 70. [2386]
Division 13 Marchman Field Rutherford County Airport	AIRFIELD PAVEMENT REHABILITATION (RUNWAY, TAXIWAY, APRON) Rehabilitate airfield pavement on Runway 1-19, taxiways and apron in order to prevent further deterioration of pavement condition. Overall Pavement Condition Index (PCI) is 52. [2271]

ITEM I-4 SUMMARY – 3 PROJECTS – (TOTAL STATE and FEDERAL COST) \$4,830,000

**Project selection and approval for award. Cost is estimated. Only eligible cost within the project scope of work will be reimbursed.

**NCDOT October 2017 Board of Transportation Agenda
Approval of Strategic Transportation Investments Funds**

Town/ County Division PROJ. CATEGORY	Project Description	Estimated Cost
Dare Co. Div. 1 R-3419 REGIONAL	WBS 38860.1.1 US 158 from US 64/NC 12 to eastern end of Currituck. Initial funds are requested for preliminary engineering.	\$1,000,000.00
Carteret Co. Div. 2 AV-5746 DIVISION	WBS 46340.3.1 Michael J. Smith Field (MRH), Full parallel taxiway 8-26. \$2,843,950.00 has previously been approved for construction. Additional funds are requested.	\$108,000.00
Carteret Co. Div. 2 U-5876 STATEWIDE	WBS 44678.1.1 US 70 (Arendell Street) from 4th street to SR 1175 (Radio Island Road). Initial funds are requested for preliminary engineering.	\$300,000.00
Craven Co. Div. 2 R-5777 STATEWIDE	WBS 44648.1.1 US 70 from SR 1124 (Grantham Road) to the proposed US 70 Havelock Bypass. Initial funds are requested for preliminary engineering.	\$500,000.00
Craven Co. Div. 2 R-5777B REGIONAL	WBS 44648.1.3 US 70 at West Thurman Road / East Thurman Road. Initial funds are requested for preliminary engineering.	\$1,000,000.00

**NCDOT October 2017 Board of Transportation Agenda
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Town/ County Division PROJ. CATEGORY	Project Description	Estimated Cost
Brunswick Co. Div. 3 AV-5739 DIVISION	WBS 46333.2.1 Cape Fear Regional Airport approach clearing at Runway 5 and Runway 23. \$277,000.00 has previously been approved for right of way. Additional funds are requested.	\$31,000.00
Brunswick Co. Div. 3 AV-5739 DIVISION	WBS 46333.1.1 Cape Fear Regional Airport approach clearing at Runway 5 and Runway 23. \$55,000.00 has previously been approved preliminary engineering. Additional funds are requested.	\$7,000.00
Brunswick Co. Div. 3 AV-5742 DIVISION	WBS 46336.1.1 Odell Williamson Municipal Airport (60J), Runway Protection Zone 2 - Runway 24 land acquisition. \$69,370.00 has previously been approved for preliminary engineering. Additional funds are requested for preliminary engineering.	\$3,000.00
Brunswick Co. Div. 3 R-4462 REGIONAL	WBS 38926.1.1 US-74-76 at NC 87 (Maco Road). Initial funds are requested for preliminary engineering.	\$750,000.00
Brunswick Co. Div. 3 R-5851 STATEWIDE	WBS 47539.1.1 US 17 at NC 904. Initial funds are requested for preliminary engineering.	\$500,000.00

**NCDOT October 2017 Board of Transportation Agenda
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Town/ County Division PROJ. CATEGORY	Project Description	Estimated Cost
Brunswick Co. Div. 3 R-5857 STATEWIDE	WBS 47545.1.1 US 17 at US 17 Business. Initial funds are requested for preliminary engineering.	\$500,000.00
Sampson/ Pender/ Duplin Cos. Div. 3 I-5940 STATEWIDE	WBS 45883.1.1 I-40 from SR 1725 (Milemarker 352) In Sampson County to SR 1501 (Milemarker 388) in Pender County. Initial funds are requested for preliminary engineering.	\$100,000.00
New Hanover/ Pender Cos. Div. 3 R-3300A REGIONAL	WBS 40237.1.3 US 17 Hampstead Bypass from US 17 Bypass south of Hampstead to NC 210. Initial funds are requested for preliminary engineering.	\$1,000,000.00
Wilmington/ New Hanover Co. Div. 3 U-4751 STATEWIDE	WBS 40191.2.1 SR 1409 (Military Cutoff Road Extension) from SR 1409 (Military Cutoff Road) to US 17 in Wilmington. \$73,550,000.00 has previously been approved for acquisition of specific parcels. Additional funds are requested for numerous claims. This project has previously been identified as a Trust Fund Intrastate System project.	\$7,500,000.00
New Hanover Co. Div. 3 U-6080 DIVISION	WBS 47465.1.1 SR 1175 (Kerr Avenue) from Patrick Avenue to SR 1411 (Wrightsville Avenue). Initial funds are requested for preliminary engineering.	\$1,000,000.00

**NCDOT October 2017 Board of Transportation Agenda
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Town/ County Division PROJ. CATEGORY	Project Description	Estimated Cost
New Hanover Co. Div. 3 U-6083 DIVISION	WBS 47479.1.1 North 23rd Street from US 74 (Martin Luther King, Jr Parkway) to NC 133 (Castle Hayne Road). Initial funds are requested for preliminary engineering.	\$1,000,000.00
Onslow Co. Div. 3 B-5944 DIVISION	WBS 47213.1.1 Replace bridge #77 over SR 1509 (Queens Creek Road). Initial funds are requested for preliminary engineering.	\$500,000.00
Onslow Co. Div. 3 U-6065 STATEWIDE	WBS 47489.1.1 US 17 from NC 172 (Sneads Ferry Road / SR 1518 (Old Folkstone Road). Initial funds are requested for preliminary engineering.	\$750,000.00
Onslow Co. Div. 3 U-6081 DIVISION	WBS 47466.1.1 NC 53 (Western Boulevard) from SR 1308 (Gum Branch Road) to US 17 (Marine Boulevard). Initial funds are requested for preliminary engineering.	\$1,000,000.00
Onslow Co. Div. 3 U-6082 DIVISION	WBS 47471.1.1 SR 1308 (Bell Fork Road) from SR 1403 (Country Club Road/Hargett Street). Initial funds are requested for preliminary engineering.	\$500,000.00

**NCDOT October 2017 Board of Transportation Agenda
Approval of Strategic Transportation Investments Funds**

Town/ County Division PROJ. CATEGORY	Project Description	Estimated Cost
Pender/ New Hanover Cos. Div. 3 R-3300B REGIONAL	WBS 40237.1.2 US 17 from NC 210 to US 17 north of Hampstead. Initial funds are requested for preliminary engineering.	\$1,000,000.00
Pender Co. Div. 3 R-5850 REGIONAL	WBS 47538.1.1 NC 53 from US 117 Bypass to Stag Park Road. Initial funds are requested for preliminary engineering.	\$500,000.00
Sampson Co. Div. 3 I-5780 STATEWIDE	WBS 53021.1.1 I-40 from east of Sampson County Line (Milemarker 340) to west of NC 403 (Milemarker 355). Initial funds are requested for preliminary engineering.	\$100,000.00
Edgecombe Co. Div. 4 U-4424 DIVISION	WBS 39062.1.2 NC 111 (Wilson Street) from US 64 Alternate (Western Boulevard) to NC 122 (McNair Road). Initial funds are requested for preliminary engineering.	\$50,000.00
Johnston Co. Div. 4 R-5795 REGIONAL	WBS 44995.1.1 US 70 from US 301 to I-95 Initial funds are requested for preliminary engineering.	\$50,000.00

**NCDOT October 2017 Board of Transportation Agenda
Approval of Strategic Transportation Investments Funds**

Town/ County Division PROJ. CATEGORY	Project Description	Estimated Cost
Johnston Co. Div. 4 R-5817 DIVISION	WBS 46989.2.1 NC 210 at SR 1162 (Black Creek Road). Initial funds are requested for full right of way and utilities.	\$200,000.00
Smithfield/ Johnston Co. Div. 4 U-3334B DIVISION	WBS 34929.2.5 SR 1923 (Booker Dairy Road Extension) from SR 1003 (Buffalo Road) to US 301 (Brightleaf Boulevard). \$4,090,000.00 has previously been approved for right of way. Additional funds are requested for acquisition and settlement costs.	\$5,000,000.00
Johnston Co. Div. 4 U-5999 DIVISION	WBS 47117.2.1 Kellie Drive from north of SR 1923 (Booker Dairy Road) to SR 1003 (Buffalo Road). Construct roadway on new location. Initial funds are requested for full right of way and utilities.	\$400,000.00
Nash Co. Div. 4 U-2561C DIVISION	WBS 34835.1.5 NC 43 from SR 1613 (Woodruff Avenue) to I-95. Initial funds are requested for preliminary engineering.	\$50,000.00
Nash Co. Div. 4 U-5911 REGIONAL	WBS 44642.1.1 NC 48 from Red Oak / Battleboro Road to NC 4. Initial funds are requested for preliminary engineering.	\$50,000.00

**NCDOT October 2017 Board of Transportation Agenda
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Town/ County Division PROJ. CATEGORY	Project Description	Estimated Cost
Nash Co. Div. 4 U-5947 REGIONAL	WBS 46884.1.1 NC 43 (Benvenue Road) to US 64 Bypass offramp. Initial funds are requested for preliminary engineering.	\$50,000.00
Wayne Co. Div. 4 AV-5740 DIVISION	WBS 46334.1.1 Wayne Executive Jetport, (GWW), Land Acquisition. \$30,000.00 has previously been approved for preliminary engineering. Additional funds are requested.	\$2,000.00
Wayne Co. Div. 4 U-5724 REGIONAL	WBS 54016.1.2 US 13 (Berkeley Boulevard) - realignment of SR 1709 (Central Heights Road) at Berkeley Boulevard. Initial funds are requested for preliminary engineering.	\$600,000.00
Wayne Co. Div. 4 U-5938 REGIONAL	WBS 46888.2.1 US 13 (Berkeley Boulevard) at SR 1003 (New Hope Road). Improve intersection. Initial funds are requested for full right of way and utilities.	\$200,000.00
Wayne Co. Div. 4 U-5997 DIVISION	WBS 47134.1.1 SR 2075 (Ash Street) from US 117 / I-795 to Virginia Street. Initial funds are requested for preliminary engineering.	\$50,000.00

**NCDOT October 2017 Board of Transportation Agenda
Approval of Strategic Transportation Investments Funds**

Town/ County Division PROJ. CATEGORY	Project Description	Estimated Cost
Wilson Co. Div. 4 I-5937 STATEWIDE	WBS 45880.1.1 I-795 from Wayne County to SR 1645 (Blalock Road). Initial funds are requested for preliminary engineering.	\$15,000.00
Wilson Co. Div. 4 I-5818 STATEWIDE	WBS 50461.1.1 I-795 from 0.2 mile north of US 301 to I-95. Initial funds are requested for preliminary engineering.	\$15,000.00
Wilson Co. Div. 4 U-5941 REGIONAL	WBS 46885.1.1 US 264 Alternate (Raleigh Road Parkway) from SR 1320 (Airport Boulevard) to east of SR 1165 (Forest Hills Road). Initial funds are requested for preliminary engineering.	\$50,000.00
Wilson Co. Div. 4 U-6000 DIVISION	WBS 47136.1.1 NC 58 from NC 42 / SR 1516 (Ward Boulevard) to SR 1165 (Forest Hills Road). Initial funds are requested for preliminary engineering.	\$50,000.00
Durham Co. Div. 5 U-5937 STATEWIDE	WBS 45945.1.1 NC 147 Durham Freeway, from SR 1445 (South Duke Street) to Briggs Avenue in Durham. Initial funds are requested for preliminary engineering.	\$200,000.00

**NCDOT October 2017 Board of Transportation Agenda
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Town/ County Division PROJ. CATEGORY	Project Description	Estimated Cost
Durham/ Wake Cos. Div. 5 I-5702 STATEWIDE	WBS 46301.1.1 I-40, US 15 / US 501 in Durham County to I-40 / US 1 / US 64 in Wake County. Initial funds are requested for preliminary engineering.	\$400,000.00
Wake Co. Div. 5 I-5970 STATEWIDE	WBS 45923.1.1 I-440 / US 1 at US 401 (Capital Boulevard) in Raleigh. Initial funds are requested for preliminary engineering.	\$200,000.00
Wake Co. Div. 5 U-2901 REGIONAL	WBS 34877.1.6 NC 55 (Williams Street) from US 1 to north of SR 1160 (Olive Chapel Road) in Apex. \$500,000.00 has previously been approved for preliminary engineering. Additional funds are requested for preliminary engineering.	\$1,300,000.00
Wake Co. Div. 5 U-2901AC REGIONAL	WBS 34877.1.5 NC 55 (Williams Street) from US 1 to Apex Peakway. Convert current multilanes to median divided sections. \$800,000.00 has previously been approved for preliminary engineering. Funds need to be decreased (\$790,247.76). AC break was deleted from the STIP. WBS will be closed.	-\$790,247.76
Wake Co. Div. 5 U-5518A STATEWIDE	WBS 43612.1.2 US 70 (Glenwood Avenue) from west of SR 3067 (T. W. Alexander Drive) to I-540. Initial funds are requested for preliminary engineering.	\$200,000.00

**NCDOT October 2017 Board of Transportation Agenda
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Town/ County Division PROJ. CATEGORY	Project Description	Estimated Cost
Wake Co. Div. 5 U-5518B STATEWIDE	WBS 43612.1.3 US 70 (Glenwood Avenue) at SR 3067 (T.W. Alexander). Initial funds are requested for preliminary engineering.	\$200,000.00
Wake Co. Div. 5 U-5518C STATEWIDE	WBS 43612.1.4 US 70 (Glenwood Avenue) at SR 3100 - SR 3109 (Brier Creek Parkway) in Raleigh. Initial funds are requested for preliminary engineering.	\$200,000.00
Wake Co. Div. 5 U-5891 REGIONAL	WBS 44706.1.1 NC 50 (Creedmoor Road) from I-540 to north of NC 98. Initial funds are requested for preliminary engineering.	\$300,000.00
Wake Co. Div. 5 U-5967 REGIONAL	WBS 45981.1.1 Town Of Morrisville. Construct townwide ITS / Signal System. Initial funds are requested for preliminary engineering.	\$130,000.00
Wake Co. Div. 5 U-6022 REGIONAL	WBS 47148.1.1 Town of Fuquay - Varina. Construct townwide ITS / Signal Systems. Initial funds are requested for preliminary engineering.	\$325,000.00

**NCDOT October 2017 Board of Transportation Agenda
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Town/ County Division PROJ. CATEGORY	Project Description	Estimated Cost
Wake Co. Div. 5 U-6023 DIVISION	WBS 47149.1.1 Town of Wake Forest. Construct townwide ITS / Signal System. Initial funds are requested for preliminary engineering.	\$320,000.00
Brunswick/ Columbus Co. Div. 6 R-2561C REGIONAL	WBS 34466.4.4 NC 87 from NC 11 to US 74/76. Initial funds are requested for preliminary engineering.	\$700,000.00
Columbus Co. Div. 6 R-5013 DIVISION	WBS 41160.1.1 US 701 at NC 410 (Joe Brown Highway). Initial funds are requested for preliminary engineering.	\$120,000.00
Cumberland Co. Div. 6 I-5986B STATEWIDE	WBS 47532.1.3 I-95 from SR 1002 (Long Branch Road - Exit 71) to I-40 (Exit 81). Initial funds are requested for preliminary engineering.	\$6,000,000.00
Cumberland Co. Div. 6 U-5802A DIVISION	WBS 44374.1.2 Spring Lake Bypass from NC 210 (Lillington Highway) to NC 210 (Murchinson Road). Initial funds are requested for preliminary engineering.	\$500,000.00

**NCDOT October 2017 Board of Transportation Agenda
Approval of Strategic Transportation Investments Funds**

Town/ County Division PROJ. CATEGORY	Project Description	Estimated Cost
Cumberland Co. Div. 6 U-5802B DIVISION	WBS 44374.1.3 Spring Lake Bypass from NC 210 (Murchison Road) to NC 87 (Bragg Boulevard). Initial funds are requested for preliminary engineering.	\$500,000.00
Harnett Co. Div. 6 I-5877 DIVISION	WBS 53077.1.2 I-95 at SR 1811 (Bud Hawkins Road) (Exit 70) and SR 1001 (Long Branch Road) (Exit 71). Initial funds are requested for preliminary engineering.	\$250,000.00
Harnett Co. Div. 6 I-5878 DIVISION	WBS 53078.1.2 I-95 at US 421 (Exit 73) and SR 1793 (Pope Road) (Exit 72). Initial funds are requested for preliminary engineering.	\$250,000.00
Harnett Co. Div. 6 I-5883 DIVISION	WBS 53083.1.2 I-95 at SR 1808 (Jonesboro Road) (Exit 75) and SR 1709 (Hodges Chapel Road) (Exit 77). Initial funds are requested for preliminary engineering.	\$250,000.00
Harnett Co. Div. 6 R-5705A DIVISION	WBS 46377.1.2 NC 55 from Church Street to Angier Town Limit. Initial funds are requested for preliminary engineering.	\$700,000.00

**NCDOT October 2017 Board of Transportation Agenda
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Town/ County Division PROJ. CATEGORY	Project Description	Estimated Cost
Harnett Co. Div. 6 R-5705B REGIONAL	WBS 46377.1.3 NC 55 from Angier Town Limit to south of SR 2791 (Kennebec Church Road). Initial funds are requested for preliminary engineering.	\$700,000.00
Harnett Co. Div. 6 U-6052 REGIONAL	WBS 46959.1.1 US 421 (Cumberland Street) from I-95 to SR 1718 (Erwin Road). Initial funds are requested for preliminary engineering.	\$1,000,000.00
Robeson Co. Div. 6 P-4900A STATEWIDE	WBS 41099.3.2 Railroad Bypass of Pembroke to allow North to South shipments to turn East. Grading and structures for new rail connector in northeast quadrant between CSX A-Line and CSX SE Line. \$8,885,000.00 has previously been approved for construction. Additional funds are requested. This is a Strategic Transportation Investments Transition project.	\$2,700,000.00
Pembroke/ Robeson Co. Div. 6 P-4900B STATEWIDE	WBS 41099.3.3 Railroad Bypass of Pembroke to allow North to South shipments to turn East. Realign SR 1571 (Jones Road) to accommodate railroad track realignment. \$1,125,525.00 has previously been approved for construction. Additional funds are requested. This is a Strategic Transportation Investments Transition project.	\$300,000.00
Robeson Co. Div. 6 R-5754 DIVISION	WBS 46414.3.1 NC 20 from NC 71 to I-95. \$2,000,000.00 has previously been approved for construction. Additional funds are requested.	\$150,000.00

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Town/ County Division PROJ. CATEGORY	Project Description	Estimated Cost
Alamance Co. Div. 7 U-6009 REGIONAL	WBS 47144.1.1 US 70 (West Church Street) from Tarleton Avenue to Fifth Street in Burlington. Initial funds are requested for preliminary engineering.	\$400,000.00
Burlington/ Alamance Co. Div. 7 U-6010 REGIONAL	WBS 47145.1.1 US 70 (South Church Street) at SR 1226 / SR 1311 (University Drive) in Burlington. \$100,000.00 has previously been approved for preliminary engineering. Additional funds are requested.	\$250,000.00
Burlington/ Alamance Co. Div. 7 U-6011 REGIONAL	WBS 47146.1.1 US 70 (South Church Street) at SR 1158 (Huffman Mill Road). \$100,000.00 has previously been approved for preliminary engineering. Additional funds are requested.	\$250,000.00
Alamance Co. Div. 7 U-6013 DIVISION	WBS 47158.1.1 NC 119 from NC 54 in Swepsonville to Lowes Boulevard in Mebane. Initial funds are requested for preliminary engineering.	\$400,000.00
Alamance Co. Div. 7 U-6014 DIVISION	WBS 47159.1.1 SR 1716 (Graham - Hopedale Road) from SR 1720 (West Hanover Road) to Morningside Drive in Burlington. Initial funds are requested for preliminary engineering.	\$400,000.00

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Town/ County Division PROJ. CATEGORY	Project Description	Estimated Cost
Graham/ Alamance Co. Div. 7 U-6017 DIVISION	WBS 47162.1.1 NC 54 (East Harden Street) at NC 49 (East Elm Street) in Graham. \$100,000.00 has previously been approved for preliminary engineering. Additional funds are requested.	\$250,000.00
Guilford Co. Div. 7 I-5735 STATEWIDE	WBS 52017.1.2 I-73 from the Randolph County line to I-85 / US 421 in Greensboro. Initial funds are requested for preliminary engineering.	\$150,000.00
Guilford Co. Div. 7 I-5955 STATEWIDE	WBS 45908.1.1 I-40 from SR 4121 (High Point Road) to east of SR 3037 / SR 4240 (Gate City Boulevard) in Greensboro. Initial funds are requested for preliminary engineering.	\$150,000.00
Greensboro/ Guilford Co. Div. 7 I-5964 STATEWIDE	WBS 45914.1.1 I-40 / Business 85 / US 29 / US 70 / US 220 at Elm-Eugene Street in Greensboro. \$100,000.00 has previously been approved for preliminary engineering. Additional funds are requested.	\$150,000.00
Greensboro/ Guilford Co. Div. 7 I-5965 STATEWIDE	WBS 45915.1.1 I-40 / Business 85 / US 29 / US 70 / US 220 from SR 1398 (Freeman Mill Road) to US 29 / US 70 / US 220 in Greensboro. Initial funds are requested for preliminary engineering.	\$1,000,000.00

**NCDOT October 2017 Board of Transportation Agenda
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Town/ County Division PROJ. CATEGORY	Project Description	Estimated Cost
Guilford Co. Div. 7 I-5989 REGIONAL	WBS 47535.1.1 I-73 / US 421 at US 29 / US 70 / Business 85 interchange. Initial funds are requested for preliminary engineering.	\$150,000.00
Guilford Co. Div. 7 P-5700 DIVISION	WBS 46394.1.1 Norfolk Southern mainline, Norfolk Southern "Roundhouse" property. Initial funds are requested for preliminary engineering.	\$200,000.00
Guilford Co. Div. 7 P-5727 REGIONAL	WBS 47605.1.1 Norfolk Southern H Line grade separation at Wagoner Bend Road crossing (722966K) in Greensboro. Initial funds are requested for preliminary engineering.	\$800,000.00
Guilford/ Rockingham Cos. Div. 7 R-5823 DIVISION	WBS 47095.1.1 NC 65 / NC 68 from NC 65 in Stokesdale (Southernmost intersection) to US 220 / Future I-73. Initial funds are requested for preliminary engineering.	\$400,000.00
Greensboro/ Guilford Co. Div. 7 U-2525 STATEWIDE	WBS 34821.1.1 Greensboro Eastern Loop from SR 2303 (Lawndale Drive) to north of I-40/85. \$13,111,803.00 has previously been approved for preliminary engineering. Additional funds are needed to cover expenditures that have or will exceed the previously authorized budget. This project has previously been identified as a Trust Fund Urban Loop project.	\$210,000.00

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Town/ County Division PROJ. CATEGORY	Project Description	Estimated Cost
Greensboro/ Guilford Co. Div. 7 U-2525C STATEWIDE	WBS 34821.1.5 Greensboro Eastern Loop from US 29 north of Greensboro to SR 2303 (Lawndale Drive). \$3,951,750.00 has previously been approved for preliminary engineering. Additional funds are requested for additional design work. This project has previously been identified as a Trust Fund Urban Loop project.	\$450,000.00
Guilford Co. Div. 7 U-2581B DIVISION	WBS 34840.1.3 US 70 from SR 2851 (Penry Road) to SR 3056 (Rock Creek Dairy Road). Initial funds are requested for preliminary engineering.	\$2,000,000.00
Guilford Co. Div. 7 U-4015A DIVISION	WBS 35013.1.4 SR 1556 (Gallimore Dairy Road) from NC 68 to south of International Drive. Initial funds are requested for preliminary engineering.	\$400,000.00
Guilford Co. Div. 7 U-5841 DIVISION	WBS 50232.1.1 Lindell Road from Friendly Avenue in Greensboro. Initial funds are requested for preliminary engineering.	\$250,000.00
Guilford Co. Div. 7 U-5850 DIVISION	WBS 50239.1.1 SR 1007 (Randleman Road) from Elmsley Drive to Glendale Drive in Greensboro. Initial funds are requested for preliminary engineering.	\$400,000.00

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Town/ County Division PROJ. CATEGORY	Project Description	Estimated Cost
Guilford Co. Div. 7 U-5898 REGIONAL	WBS 44661.1.1 US 29 at NC 150. \$100,000.00 has previously been approved for preliminary engineering. Additional funds are requested.	\$250,000.00
Guilford Co. Div. 7 U-5974 REGIONAL	WBS 45962.1.1 NC 68 from SR 1523 (Hickwood Road) to SR 1556 (Gallimore Dairy Road) in High Point. Initial funds are requested for preliminary engineering.	\$400,000.00
Greensboro/ Guilford Co. Div. 7 U-6008 DIVISION	WBS 47143.1.1 SR 2085 (Bryan Boulevard) from New Garden Road at Horsepen Creek Road in Greensboro. \$200,000.00 has previously been approved for preliminary engineering. Additional funds are requested.	\$250,000.00
Guilford Co. Div. 7 U-6016 DIVISION	WBS 47161.1.1 SR 2124 (Lewiston Road) at SR 2136 (Fleming Road). \$100,000.00 has previously been approved for preliminary engineering. Additional funds are requested.	\$250,000.00
Guilford Co. Div. 7 U-6018 DIVISION	WBS 47163.1.1 NC 62 from SR 1154 (Kersey Valley Road) to SR 1162 (Weant Road) in Archdale. Initial funds are requested for preliminary engineering.	\$400,000.00

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Town/ County Division PROJ. CATEGORY	Project Description	Estimated Cost
Guilford Co. Div. 7 U-6019 DIVISION	WBS 47164.1.1 SR 2334 (Air Harbor Road) at SR 2347 (Lake Brandt Road). \$100,000.00 has previously been approved for preliminary engineering. Additional funds are requested.	\$250,000.00
Guilford Co. Div. 7 U-6050 DIVISION	WBS 46996.1.1 SR 1486 (East Lexington Avenue) from SR 1009 (North Main Street) to SR 1471 (Montlieu Avenue) in High Point. Initial funds are requested for preliminary engineering.	\$400,000.00
Guilford Co. Div. 7 U-6061 DIVISION	WBS 47485.1.1 NC 610 (East Fairfield Road) from SR 1009 (South Main Street) to NC 62 (Liberty Street) in High Point. Initial funds are requested for preliminary engineering.	\$400,000.00
Orange Co. Div. 7 I-5958 STATEWIDE	WBS 45910.1.1 I-40 / I-85 from west of SR 1114 (Buckhorn Road) to west of SR 1006 (Orange Grove Road). Initial funds are requested for preliminary engineering.	\$150,000.00
Orange Co. Div. 7 I-5959 STATEWIDE	WBS 45911.1.1 I-85 from west of SR 1006 (Orange Grove Road) to Durham County line. Initial funds are requested for preliminary engineering.	\$150,000.00

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Town/ County Division PROJ. CATEGORY	Project Description	Estimated Cost
Orange Co. Div. 7 I-5984 STATEWIDE	WBS 47530.1.1 I-85 at NC 86 in Hillsborough. Initial funds are requested for preliminary engineering.	\$1,000,000.00
Orange Co. Div. 7 R-5821A REGIONAL	WBS 47093.1.2 NC 54 from SR 1006 (Orange Grove Road) to SR 1107 / SR 1937 (Old Fayetteville Road). Initial funds are requested for preliminary engineering.	\$400,000.00
Orange Co. Div. 7 R-5821B DIVISION	WBS 47093.1.3 NC 54 from SR 1006 (Orange Grove Road) to SR 1107 / SR 1937 (Old Fayetteville Road). Initial funds are requested for preliminary engineering.	\$250,000.00
Orange Co. Div. 7 U-6071 REGIONAL	WBS 47496.1.1 NC 54 at SR 1007 (Old Fayetteville Road) in Carrboro. Initial funds are requested for preliminary engineering.	\$400,000.00
Rockingham Co. Div. 7 R-5766 DIVISION	WBS 44659.1.1 NC 65 / NC 87 from west of SR 2371 (Old County Home Road) in Wentworth to US 158 / US 29 Business (Freeway Drive) in Reidsville. Initial funds are requested for preliminary engineering.	\$400,000.00

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Town/ County Division PROJ. CATEGORY	Project Description	Estimated Cost
Rockingham Co. Div. 7 R-5766A DIVISION	WBS 44659.1.2 NC 65 / NC 87 from west of SR 2371 (Old County Home Road) in Wentworth to SR 1001 (Sandy Cross Road) / SR 1998 (Wentworth Street). Initial funds are requested for preliminary engineering.	\$400,000.00
Rockingham Co. Div. 7 R-5766B DIVISION	WBS 44659.1.3 NC 65 / NC 87 from SR 1001 (Sandy Cross Road) / SR 1998 (Wentworth Street) to SR 2413 (Vance Street Extension). Initial funds are requested for preliminary engineering.	\$400,000.00
Randolph/ Guilford Cos. Div. 7/08 I-5949 STATEWIDE	WBS 45896.1.1 I-74 / US 311 from US 29 / US 70 / Business 85 to SR 1928 (Cedar Square Road) in Randolph County. Initial funds are requested for preliminary engineering.	\$397,000.00
Forsyth/ Guilford Cos. Divs. 7/9 R-2577A REGIONAL	WBS 37405.1.2 US 158 from multi-lanes north of US 421 / I-40 Business to SR 1965 (Belews Creek Road). Initial funds are requested for preliminary engineering.	\$1,250,000.00
Moore/ Scotland/ Hoke Cos. Div. 8 R-5827 DIVISION	WBS 47099.1.1 US 15 / US 501 from US 401 in Laurinburg to US 1 in Aberdeen. Initial funds are requested for preliminary engineering.	\$3,320,000.00

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Town/ County Division PROJ. CATEGORY	Project Description	Estimated Cost
Lee Co. Div. 8 B-5976 DIVISION	WBS 47239.1.1 Replace bridge # 69 and #70 over Norfolk Southern Railroad on SR 1400 (Cumnock Road). Initial funds are requested for preliminary engineering.	\$413,000.00
Lee Co. Div. 8 R-2417AA REGIONAL	WBS 34431.3.7 US 421 / NC 87 (Sanford Bypass) from west of SR 1400 (Cumnock Road) to west of US 1-15-501. \$38,626,213.00 has previously been approved for construction. Additional funds are requested for construction. This project has previously been identified as a Trust Fund Intrastate System project.	\$300,000.00
Lee Co. Div. 8 R-3830 DIVISION	WBS 38887.2.3 NC 42 from US 421 to SR 1579 (Broadway Road) in Sanford and SR 1579 from NC 42 to SR 1538 (East Harrington Avenue) in Broadway. Initial funds are requested for full right of way.	\$12,198,000.00
Lee Co. Div. 8 U-6070 REGIONAL	WBS 47495.1.1 NC 78 from US 1 to SR 1001 (Lemon Springs Road) in Sanford. Initial funds are requested for preliminary engineering.	\$2,700,000.00
Montgomery Co. Div. 8 I-5947 STATEWIDE	WBS 45894.1.1 I-73 / I-74 / US 220 from Richmond County line to Randolph County line. Initial funds are requested for preliminary engineering.	\$1,335,000.00

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Town/ County Division PROJ. CATEGORY	Project Description	Estimated Cost
Montgomery Co. Div. 8 R-2527 STATEWIDE	WBS 35572.1.1 NC 24 - 27 from NC 73 to the Troy Bypass. \$3,022,020.00 has previously been approved for preliminary engineering. Additional funds are requested for design work. This project has previously been identified as a Trust Fund Intrastate System project.	\$870,000.00
Montgomery Co. Div. 8 R-5826A DIVISION	WBS 47098.1.2 NC 109 from NC 73 (North Main Street) in Mt. Gilead to SR 1127 (Hearne Farm Road). Initial funds are requested for preliminary engineering.	\$370,000.00
Montgomery Co. Div. 8 R-5826B DIVISION	WBS 47098.1.3 NC 109 from SR 1127 (Hearne Farm Road) to SR 1174 (Pee Dee Road). Initial funds are requested for preliminary engineering.	\$200,000.00
Randolph Co. Div. 8 I-5948 STATEWIDE	WBS 45895.1.1 I-73 / I-74 / US 220 from Montgomery County line to north of SR 1462 (Park Drive) in Asheboro. Initial funds are requested for preliminary engineering.	\$832,000.00
Richmond Co. Div. 8 I-5946 STATEWIDE	WBS 45892.1.1 I-73 / I-74 from US 220 south of Ellerbe to Montgomery County line. Initial funds are requested for preliminary engineering.	\$518,000.00

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Town/ County Division PROJ. CATEGORY	Project Description	Estimated Cost
Scotland Co. Div. 8 R-5801 REGIONAL	WBS 46883.1.1 US 15 / US 501 to NC 144 intersection. Initial funds are requested for preliminary engineering.	\$54,000.00
Davidson Co. Div. 9 AV-5749 DIVISION	WBS 46343.2.1 Davidson County Airport. Install 6 medium intensity runway approach lighting systems with runway alignment indicator lights across I-85, including interchange lighting. \$611,000.00 has previously been approved for full right of way and utilities. Additional funds are requested.	\$69,000.00
Davidson Co. Div. 9 R-4734 REGIONAL	WBS 38954.1.1 NC 109 from NC 109 in Denton to I-85 in Thomasville. Initial funds are requested for preliminary engineering.	\$1,000,000.00
Davidson Co. Div. 9 U-5902 DIVISION	WBS 44725.1.1 NC 150 from US 64 to the Forsyth County line. Initial funds are requested for preliminary engineering.	\$750,000.00
Davie Co. Div. 9 R-5854 DIVISION	WBS 47542.1.1 SR 1410 (Farmington Road) at I-40 eastbound ramp and US 158 intersection. Initial funds are requested for preliminary engineering.	\$400,000.00

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Town/ County Division PROJ. CATEGORY	Project Description	Estimated Cost
Davie Co. Div. 9 R-5862B REGIONAL	WBS 47549.1.3 US 64 from the Davie County Line to US 29 / US 52 / US 70 / Business 85 in Lexington. Initial funds are requested for preliminary engineering.	\$2,000,000.00
Forsyth/ Davie Cos. Div. 9 U-6076 REGIONAL	WBS 47519.1.1 US 158 from SR 1630 (Baltimore Road) to SR 1103 (Lewisville - Clemmons Road) in Clemmons. Initial funds are requested for preliminary engineering.	\$1,000,000.00
Forsyth Co. Div. 9 B-5948 DIVISION	WBS 47214.1.1 Replace bridge #211 over Norfolk Southern Railroad on SR 2377 (Old Greensboro Road NE) in Winston Salem. Initial funds are requested for preliminary engineering.	\$150,000.00
Forsyth Co. Div. 9 I-5988 REGIONAL	WBS 47534.1.1 I -40 at US 52 / US 311 / NC 8 in Winston Salem. Initial funds are requested for preliminary engineering.	\$2,000,000.00
Forsyth Co. Div. 9 R-2247 STATEWIDE	WBS 34409.1.1 Winston Salem Northern Beltway from US 158 to US 52. \$15,365,674.00 has previously been approved for preliminary engineering. Additional funds are needed to cover expenditures that have or will exceed the previously authorized budget. This project has previously been identified as a Trust Fund Urban Loop project.	\$175,000.00

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Town/ County Division PROJ. CATEGORY	Project Description	Estimated Cost
Guilford/ Forsyth Cos. Divs. 7/9 R-2577B REGIONAL	WBS 37405.1.3 US 158 from SR 1965 (Belews Creek Road) to SR 2034 (Anthony Road) in Guilford County. Initial funds are requested for preliminary engineering.	\$1,100,000.00
Forsyth Co. Div. 9 U-2826 STATEWIDE	WBS 34871.1.3 US 52 / NC 8 from south of SR 2747 (Clemmons Road) to future I-74 (Winston – Salem Northern Beltway). Initial funds are requested for preliminary engineering.	\$2,000,000.00
Forsyth Co. Div. 9 U-6059 STATEWIDE	WBS 47483.1.1 US 421 / NC 150 (Salem Parkway) at SR 2662 (Linville Road) in Winston Salem. Initial funds are requested for preliminary engineering.	\$1,000,000.00
Forsyth Co. Div. 9 U-6063 DIVISION	WBS 47487.1.1 New route from Peters Creek Parkway to 4th Street in Winston-Salem. Initial funds are requested for preliminary engineering.	\$450,000.00

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Town/ County Division PROJ. CATEGORY	Project Description	Estimated Cost
Forsyth Co. Div. 9 U-6077 DIVISION	WBS 47524.1.1 SR 4315 (Kernersville Road) from SR 2632 (Sedge Garden Road) in Winston-Salem to Harmon Creek Road in Kernersville. Initial funds are requested for preliminary engineering.	\$750,000.00
Forsyth Co. Div. 9 U-6079 DIVISION	WBS 47526.1.1 SR 2578 (Martin Luther King Jr. Boulevard) from extension of Martin Luther King Jr. Boulevard, Northwest Boulevard to SR 1770 (North Marshall Street) in Winston Salem. Initial funds are requested for preliminary engineering.	\$750,000.00
Rowan Co. Div. 9 U-6062 DIVISION	WBS 47486.1.1 SR 2739 (North Main Street / South Main Street) from SR 2000 (Jackson Park Road) / North Loop Road in Kannapolis to SR 1211 (Kimball Road) in China Grove. Initial funds are requested for preliminary engineering.	\$750,000.00
Cabarrus Co. Div. 10 U-3415A DIVISION	WBS 35652.1.3 SR 1394 (Poplar Tent Road) from SR 1445 (Derita Road) to George Liles Parkway. Initial funds are requested for preliminary engineering	\$1,500,000.00
Cabarrus/ Mecklenburg Cos. Div. 10 U-6032 DIVISION	WBS 46965.1.1 SR 2464 (Odell School Road) from I-485 to Concord Mills Boulevard. Initial funds are requested for preliminary engineering.	\$1,050,000.00

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Town/ County Division PROJ. CATEGORY	Project Description	Estimated Cost
Mecklenburg Co. Div. 10 I-5770 STATEWIDE	WBS 53012.1.1 I-85 from 0.7 mile north of the Gaston County line to 0.1 mile north of SR 5901 (Billy Graham Parkway). Initial funds are requested for preliminary engineering.	\$480,000.00
Mecklenburg Co. Div. 10 I-5798 STATEWIDE	WBS 50442.1.1 I-485 from I-85 to Rocky River Road. Initial funds are requested for preliminary engineering.	\$415,000.00
Mecklenburg Co. Div. 10 I-5825 STATEWIDE	WBS 50468.1.1 I-77 / US 21 from SR 1577 (Tyvola Road) to I-277 in Charlotte. Initial funds are requested for preliminary engineering.	\$340,000.00
Mecklenburg Co. Div. 10 U-6069 REGIONAL	WBS 47494.1.1 US 21 (Statesville Road) from NC 24 (Harris Boulevard) to SR 2136 (Gilead Road). Initial funds are requested for preliminary engineering.	\$1,500,000.00

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Town/ County Division PROJ. CATEGORY	Project Description	Estimated Cost
Avery Co. Div. 11 R-2520A DIVISION	WBS 35574.1.3 US 19E - NC 194 from multi-lanes east of Spruce Pine in Mitchell County to SR 1106 (Mullin Hill Road). Initial funds are requested for preliminary engineering.	\$4,430,000.00
Caldwell Co. Div. 11 R-3430 DIVISION	WBS 34544.1.2 SR 1001 (Connelly Springs Road) from Catawba River to SR 1933 (South-West Boulevard) in Lenoir. Initial funds are requested for preliminary engineering.	\$2,000,000.00
Watauga/ Avery Cos. Div. 11 R-2566BA DIVISION	WBS 37512.1.4 NC 105 - Construct new bridge over Watauga River and left-turn lane at SR 1112 (Broadstone Road) - within the limits of R-2566B. Initial funds are requested for preliminary engineering.	\$1,500,000.00
Catawba Co. Div. 12 I-5915 STATEWIDE	WBS 45919.1.1 I-40 from Milemarker 132.9 to Milemarker 138.6. Initial funds are requested for preliminary engineering.	\$650,000.00
Catawba Co. Div. 12 I-5991 STATEWIDE	WBS 47537.1.1 I-40 from US 321 (Exit 123) to SR 1476 (Fairgrove Church Road - Exit 128). Initial funds are requested for preliminary engineering.	\$500,000.00

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Town/ County Division PROJ. CATEGORY	Project Description	Estimated Cost
Lincoln/ Catawba Cos. Div. 12 R-2307A REGIONAL	WBS 37944.1.3 NC 150 from relocated NC 16 (TIP project R-2206) to SR 1902 (Harvel Road). Initial funds are requested for preliminary engineering.	\$1,000,000.00
Catawba Co. Div. 12 R-3100A REGIONAL	WBS 34522.2.3 NC 16 from north of SR 1814 (Caldwell Road) to SR 1895 (Tower Road). \$348,323.00 has previously been approved for specific parcels. Additional funds are requested for specific parcels. This project has previously been identified as a Trust Fund Specific State Funds for Construction project.	\$130,000.00
Catawba Co. Div. 12 U-2307B DIVISION	WBS 34791.1.9 East Side Thoroughfare (Mcdonald Parkway), SR 1453 (Springs Road) to NC 127. Initial funds are requested for preliminary engineering.	\$2,000,000.00
Cleveland Co. Div. 12 U-5775 REGIONAL	WBS 50186.2.1 US 74 Business (Marion Street) at intersection of US 74 Business (Marion Street) and NC 150 (Cherryville Road). Initial funds are requested for full right of way and utilities.	\$360,000.00
Gaston/ Cleveland Cos. Div. 12 I-5985 STATEWIDE	WBS 47531.1.1 I-85 from US 74 to South Carolina Line. Initial funds are requested for preliminary engineering.	\$2,000,000.00

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Town/ County Division PROJ. CATEGORY	Project Description	Estimated Cost
Gaston Co. Div. 12 U-6038 DIVISION	WBS 46974.1.1 US 74 (Wilkinson Boulevard) from NC 7 (Catawba Street) to SR 2209 (Wesleyan Drive). Initial funds are requested for preliminary engineering.	\$111,000.00
Gaston Co. Div. 12 U-6044 DIVISION	WBS 46986.1.1 SR 2200 (Cox Road) from I-85 to US 29/74. Initial funds are requested for preliminary engineering.	\$1,000,000.00
Gaston Co. Div. 12 U-6078 DIVISION	WBS 47525.1.1 NC 275 at intersection of NC 275 and NC 274, intersection of NC 275 and SR 1327 (Fairview Road), and intersection of SR 1456 (White Jenkins Road) and SR 1327 (Fairview Road). Initial funds are requested for preliminary engineering.	\$200,000.00
Iredell Co. Div. 12 U-5963 REGIONAL	WBS 45977.1.1 NC 115 (Mecklenburg Highway) from SR 1135 (Waterlynn Road) to Yellow Wood Drive. Initial funds are requested for preliminary engineering.	\$75,000.00
Lincoln Co. Div. 12 R-5859 DIVISION	WBS 47547.1.1 NC 16 Business from NC 73 to SR 1389 (Fairfield Forest Road). Initial funds are requested for preliminary engineering.	\$500,000.00

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Town/ County Division PROJ. CATEGORY	Project Description	Estimated Cost
Buncombe Co. Div. 13 I-4409 STATEWIDE	WBS 38714.1.2 I-40 - SR 2500 (Blue Ridge Road) at Black Mountain. Initial funds are requested for preliminary engineering.	\$2,400,000.00
Buncombe Co. Div. 13 U-5972 REGIONAL	WBS 45960.1.1 NC 63 (New Leicester Highway) from US 19/23 (Patton Avenue) to Newfound Road. Initial funds are requested for preliminary engineering.	\$4,260,000.00
Buncombe Co. Div. 13 U-6046 REGIONAL	WBS 46992.1.1 NC 81 (Swannanoa River Road) from US 70 (Tunnel Road) to US 74 (South Tunnel Road). Initial funds are requested for preliminary engineering.	\$3,443,000.00
Burke Co. Div. 13 I-5990 DIVISION	WBS 47536.1.1 I-40 at Exit 118 - SR 1761 (Old NC 10). Initial funds are requested for preliminary engineering.	\$2,010,000.00
Burke Co. Div. 13 U-5978 REGIONAL	WBS 46906.1.1 NC 181 from SR 1440 to SR 1419. Initial funds are requested for preliminary engineering.	\$2,760,000.00

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Town/ County Division PROJ. CATEGORY	Project Description	Estimated Cost
McDowell Co. Div. 13 R-0204E DIVISION	WBS 34329.1.4 US 221-NC 226 (Marion Bypass) from I-40 to SR 1153 (Goose Creek Road). Initial funds are requested for preliminary engineering.	\$1,000,000.00
Mitchell Co. Div. 13 R-5804 REGIONAL	WBS 46882.1.1 NC 226 from Blueridge Parkway to SR 1274 (Summit Avenue). Initial funds are requested for preliminary engineering.	\$4,380,000.00
Yancey Co. Div. 13 R-2519A REGIONAL	WBS 35609.3.1 US 19 east from SR 1336 (Jacks Creek Road) to NC 80 in Yancey County. \$53,387,301.00 has previously been approved for construction. Additional funds are requested to cover a construction claim. This project has previously been identified as a Trust Fund Intrastate System project.	\$750,000.00
Cherokee Co. Div. 14 R-3622B REGIONAL	WBS 38068.3.6 NC 294 From SR 1130 (Sunny Point Road) to SR 1312 (Bear Paw Road). \$7,700,000.00 has previously been approved for construction. Additional funds are requested. This is a Strategic Transportation Investments Transition project.	\$845,000.00
Haywood Co. Div. 14 I-5834 STATEWIDE	WBS 53040.1.1 I-40 from 0.4 mile east of SR 1366 (Orchard Cove Road) to 0.4 mile east of SR 1535 (Thompson Cove Road). Initial funds are requested for preliminary engineering.	\$500,000.00

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Approval of Strategic Transportation Investments Funds**

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Town/ County Division PROJ. CATEGORY	Project Description	Estimated Cost
Henderson Co. Div. 14 I-4400B STATEWIDE	WBS 34232.1.3 I-26 from US 64 (Exit 49) to US 25 Business (Exit 44). Initial funds are requested for preliminary engineering.	\$700,000.00
Statewide R-9999WM Statewide	WBS 34634.1.5 Improvements to NCDOT'S wetland prediction model. Initial funds are requested for preliminary engineering (GIS based Regional Model).	\$500,000.00
STATEWIDE STRATEGIC TRANSPORTATION INVESTMENTS	46 PROJECTS	\$39,702,000.00
REGIONAL STRATEGIC TRANSPORTATION INVESTMENTS	49 PROJECTS	\$44,121,752.24
DIVISION STRATEGIC TRANSPORTATION INVESTMENTS	70 PROJECTS	\$58,962,000.00
STRATEGIC TRANSPORTATION INVESTMENTS	165 PROJECTS	\$142,785,752.24

October 5, 2017

**NCDOT September 2017 Board of Transportation Agenda
Approval of Funds for Specific Spot Safety Improvement Projects
And for Specific Spot Mobility Projects**

L-1

According to Executive Order No. 2 and G.S. 143B-350(g) the Board is requested to concur with staff recommendations and delegate authority to the Secretary to approve Funds for Specific Spot Safety And Spot Mobility Improvement Projects

Town/ County Division PROJ. CATEGORY	Project Description	Estimated Cost
Camden Co. Div. 1 SS-4901BE	WBS 47664.3.1 SR 1224 (Old Swamp Road) between south of SR 1225 (Lilly Road) and north of SR 1225 (Lilly Road). Initial Spot Safety construction funds are needed for pavement improvements to increase pavement friction. File 01-14-29571-1C	\$20,000.00
Durham/ Durham Co. Div. 5 SM-5705B	WBS 47650.3.1 US 70 Bus. (Hillsborough Road) at US 15-501 Southbound ramp. Initial Spot Mobility construction funds are needed for turn lane installation. File 05-15-6714-3C	\$117,000.00
Durham/ Durham Co. Div. 5 SM-5705B	WBS 47650.2.1 US 70 Bus. (Hillsborough Road) at US 15-501 Southbound ramp. Initial Spot Mobility right of way and utilities funds are needed for turn lane installation. File 05-15-6714-3R	\$3,000.00
Durham/ Durham Co. Div. 5 SM-5705G	WBS 47655.3.1 NC 54 at NC 751. Initial Spot Mobility construction funds are needed for turn lane, pavement marking, and traffic signal revisions. File 05-17-6500-1C	\$30,000.00
Durham/ Durham Co. Div. 5 SM-5705G	WBS 47655.1.1 NC 54 at NC 751. Initial Spot Mobility preliminary engineering funds are needed for turn lane, pavement marking, and traffic signal revisions. File 05-17-6500-1P	\$5,000.00

October 5, 2017

**NCDOT September 2017 Board of Transportation Agenda
Approval of Funds for Specific Spot Safety Improvement Projects
And for Specific Spot Mobility Projects**

L-2

**According to Executive Order No. 2 and G.S. 143B-350(g) the Board is requested to
concur with staff recommendations and delegate authority to the Secretary to approve
Funds for Specific Spot Safety And Spot Mobility Improvement Projects**

Town/ County Division PROJ. CATEGORY	Project Description	Estimated Cost
Fuquay Varina/ Wake Co. Div. 5 SM-5705A	WBS 47649.3.1 SR 1301 (Sunset Lake Road) at SR 1393 (Bass Lake Road/Hilltop Needmore Road). Initial Spot Mobility construction funds are needed for left turn lane construction. File 05-15-6609-1C	\$420,000.00
Wake Co. Div. 5 SM-5705C	WBS 47651.3.1 I-495/US 64 at I-540 Westbound. Initial Spot Mobility construction funds are needed for widening improvements. File 05-15-8128-1C	\$340,000.00
Wake Co. Div. 5 SM-5705D	WBS 47652.3.1 SR 1006 (Old Stage Road) at SR 1010 (Ten Ten Road). Initial Spot Mobility construction funds are needed for turn lane construction. File 05-16-2004-1C	\$270,000.00
Wake Co. Div. 5 SM-5705D	WBS 47652.1.1 SR 1006 (Old Stage Road) at SR 1010 (Ten Ten Road). Initial Spot Mobility preliminary engineering funds are needed for turn lane construction. File 05-16-2004-1P	\$45,000.00
Wake Co. Div. 5 SM-5705D	WBS 47652.2.1 SR 1006 (Old Stage Road) at SR 1010 (Ten Ten Road). Initial Spot Mobility right of way and utilities funds are needed for turn lane construction. File 05-16-2004-1R	\$70,000.00

October 5, 2017

**NCDOT September 2017 Board of Transportation Agenda
Approval of Funds for Specific Spot Safety Improvement Projects
And for Specific Spot Mobility Projects**

L-3

**According to Executive Order No. 2 and G.S. 143B-350(g) the Board is requested to
concur with staff recommendations and delegate authority to the Secretary to approve
Funds for Specific Spot Safety And Spot Mobility Improvement Projects**

Town/ County Division PROJ. CATEGORY	Project Description	Estimated Cost
Wake Co. Div. 5 SM-5705E	WBS 47653.3.1 SR 2233 (Smithfield Road) in the vicinity of US 64/US 264. Initial Spot Mobility construction funds are needed for turn lane construction and traffic signal revisions. File 05-16-9408-1C	\$480,000.00
Raleigh/ Wake Co. Div. 5 SM-5705F	WBS 47654.3.1 SR 2049 (Forestville Road) at SR 2215 (Buffaloe Road). Initial Spot Mobility construction funds are needed for turn lane construction. File 05-17-5132-1C	\$342,000.00
Raleigh/ Wake Co. Div. 5 SM-5705F	WBS 47654.1.1 SR 2049 (Forestville Road) at SR 2215 (Buffaloe Road). Initial Spot Mobility preliminary engineering funds are needed for turn lane construction. File 05-17-5132-1P	\$71,000.00
Raleigh/ Wake Co. Div. 5 SM-5705F	WBS 47654.2.1 SR 2049 (Forestville Road) at SR 2215 (Buffaloe Road). Initial Spot Mobility right of way and utilities funds are needed for turn lane construction. File 05-17-5132-1R	\$62,000.00
Wake Co. Div. 5 SS-4905FF	WBS 47665.3.1 US 264. Initial Spot Safety construction funds are needed for I-87 route signing. File 05-17-002C	\$10,000.00

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**NCDOT September 2017 Board of Transportation Agenda
Approval of Funds for Specific Spot Safety Improvement Projects
And for Specific Spot Mobility Projects**

L-4

**According to Executive Order No. 2 and G.S. 143B-350(g) the Board is requested to
concur with staff recommendations and delegate authority to the Secretary to approve
Funds for Specific Spot Safety And Spot Mobility Improvement Projects**

Town/ County Division PROJ. CATEGORY	Project Description	Estimated Cost
Guilford Co. Div. 7 SM-5707A	WBS 47656.1.1 US 70 (Burlington Road) at SR 4760 (Golf House Road West) east of Sedalia. Initial Spot Mobility preliminary engineering funds are needed for traffic signal installation. File 07-16-507-1P	\$3,000.00
Guilford Co. Div. 7 SM-5707A	WBS 47656.2.1 US 70 (Burlington Road) at SR 4760 (Golf House Road West) east of Sedalia. Initial Spot Mobility right of way and utilities funds are needed for traffic signal installation. File 07-16-507-1R	\$55,000.00
Guilford Co. Div. 7 SM-5707A	WBS 47656.3.1 US 70 (Burlington Road) at SR 4760 (Golf House Road West) east of Sedalia. Initial Spot Mobility construction funds are needed for traffic signal installation. File 07-16-507-1C	\$18,000.00
Forsyth Co. Div. 9 SM-5709A	WBS 47657.2.1 SR 2691 (Wallburg Road) at Business Park Drive south of Winston-Salem. Initial Spot Mobility right of way and utilities funds are needed for traffic signal installation. File 09-17-820-1R	\$30,000.00
Forsyth Co. Div. 9 SM-5709A	WBS 47657.3.1 SR 2691 (Wallburg Road) at Business Park Drive south of Winston-Salem. Initial Spot Mobility construction funds are needed for traffic signal installation. File 09-17-820-1C	\$90,000.00

October 5, 2017

**NCDOT September 2017 Board of Transportation Agenda
Approval of Funds for Specific Spot Safety Improvement Projects
And for Specific Spot Mobility Projects**

L-5

**According to Executive Order No. 2 and G.S. 143B-350(g) the Board is requested to
concur with staff recommendations and delegate authority to the Secretary to approve
Funds for Specific Spot Safety And Spot Mobility Improvement Projects**

Town/ County Division PROJ. CATEGORY	Project Description	Estimated Cost
Mecklenburg Co. Div. 10 SM-5710B	WBS 47659.3.1 SR 1601 (Moore's Chapel Road) at SR 1609 (Rhyne Road), and SR 1601 (Moore's Chapel Road) at I-485 ramps near Charlotte. Initial Spot Mobility construction funds are needed for roundabout installation and turn lane construction. File 10-15-231-1C	\$732,000.00
Mecklenburg Co. Div. 10 SM-5710A	WBS 47658.3.1 NC 73 (Davidson Concord Road) and SR 2427 (Ramah Church Road) near Huntersville. Initial Spot Mobility construction funds are needed for turn lane construction and traffic signal installation. File 10-13-235-1C	\$50,000.00
Mecklenburg Co. Div. 10 SM-5710C	WBS 47660.1.1 I-485 at SR 1004 (Lawyers Road) near Charlotte. Initial Spot Mobility preliminary engineering funds are needed for widening and turn lane construction. File 10-16-253-1P	\$25,000.00
Mecklenburg Co. Div. 10 SM-5710C	WBS 47660.3.1 I-485 at SR 1004 (Lawyers Road) near Charlotte. Initial Spot Mobility construction funds are needed for widening and turn lane construction. File 10-16-253-1C	\$400,000.00
Mecklenburg Co. Div. 10 SM-5710C	WBS 47660.2.1 I-485 at SR 1004 (Lawyers Road) near Charlotte. Initial Spot Mobility right of way and utilities funds are needed for widening and turn lane construction. File 10-16-253-1R	\$75,000.00

October 5, 2017

**NCDOT September 2017 Board of Transportation Agenda
Approval of Funds for Specific Spot Safety Improvement Projects
And for Specific Spot Mobility Projects**

L-6

**According to Executive Order No. 2 and G.S. 143B-350(g) the Board is requested to
concur with staff recommendations and delegate authority to the Secretary to approve
Funds for Specific Spot Safety And Spot Mobility Improvement Projects**

Town/ County Division PROJ. CATEGORY	Project Description	Estimated Cost
Asheville/ Buncombe Co. Div. 13 SM-5713A	WBS 47661.3.1 US 19-23 (Patton Avenue) at NC 63 (New Leicester Hwy). Initial Spot Mobility construction funds are needed for turn lane construction. File 13-15-205C	\$745,000.00
Asheville/ Buncombe Co. Div. 13 SM-5713A	WBS 47661.2.1 US 19-23 (Patton Avenue) at NC 63 (New Leicester Hwy). Initial Spot Mobility right of way and utilities funds are needed for turn lane construction. File 13-15-205R	\$5,000.00
Buncombe Co. Div. 13 SM-5713B	WBS 47662.1.1 NC 191 (Brevard Road) at NC 146 (Long Shoals Road). Initial Spot Mobility preliminary engineering funds are needed for turn lane construction. File 13-16-227-1P	\$50,000.00
Buncombe Co. Div. 13 SM-5713B	WBS 47662.2.1 NC 191 (Brevard Road) at NC 146 (Long Shoals Road). Initial Spot Mobility right of way and utilities funds are needed for turn lane construction. File 13-16-227-1R	\$280,000.00
Buncombe Co. Div. 13 SM-5713B	WBS 47662.3.1 NC 191 (Brevard Road) at NC 146 (Long Shoals Road). Initial Spot Mobility construction funds are needed for turn lane construction. File 13-16-227-1C	\$420,000.00
ITEM L SUMMARY	30 PROJECTS	\$5,263,000.00

October 5, 2017

**NCDOT October 2017 Board of Transportation Agenda
Approval of Funds for Specific Federal - Aid Projects**

Division 1

Enhancement

Town/ County/PROJ CATEGORY	Project Description	Estimated Cost
Divisionwide R-9999A STATEWIDE	34634.2.1, STP-000S(641) Division 1 - Environmental Mitigation and Minimization. \$300,000.00 has previously been approved for preliminary engineering. Additional funds are needed for FY 2017-2018 allocation.	\$100,000.00 Cost \$80,000.00 Fed. \$20,000.00 State

Rural

Currituck Co. R-2576 DIVISION	34470.1.TA1, BRSTP-000S(494) Mid-Currituck Bridge from Coinjock to Corolla. \$29,908,915.00 has previously been approved for preliminary engineering. Additional funds are needed based on the latest estimate for the NC Turnpike Authority Work Plan.	\$2,500,000.00 Cost \$2,000,000.00 Fed. \$500,000.00 State
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**NCDOT October 2017 Board of Transportation Agenda
Approval of Funds for Specific Federal - Aid Projects**

Division 2

Urban

Town/ County/PROJ CATEGORY	Project Description	Estimated Cost
Greenville/ Pitt Co. U-2817 DIVISION	34868.1.FD3, STP-1700(015) SR 1700 (Evans Street and Old Tar Road) from SR 1711 (Worthington Road) in Winterville to US 264A (Greenville Boulevard). \$350,000.00 has previously been approved for preliminary engineering. Additional funds are requested for planning and environmental documents.	\$1,500,000.00 Cost \$1,200,000.00 Fed. \$300,000.00 State

Safety

Greene Co. W-5601FR REGIONAL	50138.1.175, HSIP-0123(004) NC 123 at SR 1400 (Fourway Road / Ormondsville Road). \$5,000.00 has previously been approved for preliminary engineering. Additional funds are needed to complete design work.	\$10,000.00 Cost \$9,000.00 Fed. \$1,000.00 State
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**NCDOT October 2017 Board of Transportation Agenda
Approval of Funds for Specific Federal - Aid Projects**

Division 3

Enhancement

Town/ County/PROJ CATEGORY	Project Description	Estimated Cost
Divisionwide R-9999C DIVISION	34634.2.3, STP-000S(643) Division 3 - Environmental Mitigation and Minimization. \$400,000.00 has previously been approved for preliminary engineering. Additional funds are needed for FY 2017-2018 allocation.	\$100,000.00 Cost \$80,000.00 Fed. \$20,000.00 State
Sampson Co. ER-5600CB REGIONAL	46305.3.23, STP-0332(064) Plant bed installation at the NC 50 roundabout in Newton Grove. \$65,000.00 has previously been approved for construction. Additional funds are needed for change in scope of work.	\$55,421.00 Cost \$44,336.00 Fed. \$11,085.00 State

Urban

Brunswick Co. U-4738 REGIONAL	40114.1.2, STPNHF-0017(150) Cape Fear crossing from US 17 to US 421 Independence Boulevard-Carolina Beach Road Intersection. \$1,709,858.00 has previously been approved for preliminary engineering. Additional funds are requested from STBGDA for Wilmington MPO.	\$937,500.00 Cost \$750,000.00 Fed. \$187,500.00 State
Wilmington/ New Hanover Co. U-5534T DIVISION	44096.1.22, STBGDA-0396(003) Install traffic signal preemption equipment at 27 intersections throughout the City of Wilmington and install equipment on existing fire apparatus. Funds are needed for preliminary engineering.	\$81,000.00 Cost \$64,800.00 Fed. \$16,200.00 Local

**NCDOT October 2017 Board of Transportation Agenda
Approval of Funds for Specific Federal - Aid Projects**

Division 3 (Continued)

Safety

Town/ County/PROJ CATEGORY	Project Description	Estimated Cost
Brunswick Co. W-5203Y DIVISION	45333.3.25, HSIP-1115(020) SR 1115 (Stone Chimney Road / Old Ferry Connection Road) from NC 211 to dead end. Construction funds are needed for safety improvements.	\$1,900,000.00 Cost \$1,710,000.00 Fed. \$190,000.00 State

Rail Program

Magnolia/ Duplin Co. Y-5500CA DIVISION	45533.3.9, RR-0332(133) Permanent closure of Bleeker Street at-grade Crossing CSX #629 043K, Mile Post AC196.63, and signals at Sandy Street at-grade Crossing CSX #629 044S, Mile Post AC196.82 in Magnolia, Duplin County, NC. Construction funds are needed for permanent closure of at-grade crossing.	\$65,000.00 Cost \$58,500.00 Fed. \$6,500.00 State
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**NCDOT October 2017 Board of Transportation Agenda
Approval of Funds for Specific Federal - Aid Projects**

Division 4

Interstate

Town/ County/PROJ CATEGORY	Project Description	Estimated Cost
Johnston Co. I-5781 STATEWIDE	53022.3.1, NHPIM-0040(050) I-40 from SR 1010 (Cleveland Road) to west of SR 1211 (Morgan Road). Funds are needed for construction based on the estimate from the 12-Month Tentative Letting List published August 17, 2017.	\$6,550,000.00 Cost \$5,240,000.00 Fed. \$1,310,000.00 State

Enhancement

Divisionwide R-9999D DIVISION	34634.2.4, STP-000S(644) Division 4 - Environmental Mitigation and Minimization. \$300,000.00 has previously been approved for preliminary engineering. Additional funds are needed for FY 2017-2018 allocation.	\$100,000.00 Cost \$80,000.00 Fed. \$20,000.00 State
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Safety

Johnston Co. W-5600 REGIONAL	50056.2.1, HSIP-0070(163) US 70 Business to Neuse River Bridge, Convert to Freeway with interchanges at SR 1501 (Swift Creek Road) and SR 1919 (Wilson's Mills Road). Funds are needed for full right of way and utilities.	\$5,000,000.00 Cost \$4,000,000.00 Fed. \$1,000,000.00 State
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Rail Program

Halifax Co. Z-5700DB DIVISION	44803.1.12, RR-1641(005) Railway-Highway Grade Crossing Safety Project. SR 1641 (County Club Road) at the CSX Crossing #629 653T near Weldon, Halifax County. Funds are needed for preliminary engineering.	\$30,000.00 Cost \$27,000.00 Fed. \$3,000.00 State
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**NCDOT October 2017 Board of Transportation Agenda
Approval of Funds for Specific Federal - Aid Projects**

Division 5

Congestion Mitigation

Town/ County/PROJ CATEGORY	Project Description	Estimated Cost
Durham Co. C-5572 EXEMPT	46401.3.1, CMS-0505(075) West Ellerbe Creek Greenway, Construction Phase II, Westover Park to Stadium Drive Rail in Durham. \$1,440,240.00 has previously been approved for construction. Additional funds are needed for change in scope of work.	\$479,588.00 Cost \$383,670.00 Fed. \$95,918.00 Local
Wake Co. C-5604IA EXEMPT	43714.3.3, CMS-0540(032) Panther Creek Greenway, construct 10 foot wide asphalt trail and 90 foot bridge across Panther Creek and connections to adjacent neighborhoods, grade separated crossing of I-540 and at Green Level Church Road. Construction funds are needed to construct asphalt trail.	\$1,257,300.00 Cost \$1,005,840.00 Fed. \$251,460.00 Local

Enhancement

Divisionwide R-9999E DIVISION	34634.2.5, STP-000S(645) Division 5 - Environmental Mitigation and Minimization. \$300,000.00 has previously been approved for preliminary engineering. Additional funds are needed for FY 2017-2018 allocation.	\$100,000.00 Cost \$80,000.00 Fed. \$20,000.00 State
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Urban

Durham Co. U-4445 DIVISION	36726.3.1, STPNHS-0147(002) NC 147 (Durham Freeway) near Alston Avenue. \$1,911.639.00 has previously been approved for construction. Additional funds are needed by city contract for a pedestrian bridge replacement.	\$38,335.00 Cost \$30,668.00 Fed. \$7,667.00 State
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**NCDOT October 2017 Board of Transportation Agenda
Approval of Funds for Specific Federal - Aid Projects**

Division 5 (Continued)

Urban

Town/ County/PROJ CATEGORY	Project Description	Estimated Cost	
Cary/ Wake Co. U-5501B DIVISION	45488.2.4, STBGDA-1650(007)	\$605,000.00	Cost
	SR 1650 (Reedy Creek Road) from 600 feet south of Watts	\$484,000.00	Fed.
	Pond Lane to NE Maynard Road. Funds are needed for full right of way and utilities.	\$121,000.00	Local
Wake Co. U-5927A DIVISION	44796.3.2, STPDA-2768(003)	\$2,310,000.00	Cost
	SR 2768 / SR 5056 (North Judd Parkway North East) from	\$1,686,300.00	Fed.
	SR 3736 (Old Honeycutt Road) to North of Intersection of SR 5056 (North Judd Parkway North East) and SR 1402 (East Broad Street). Construction funds are needed to provide additional capacity and improve safety.	\$623,700.00	Local

Bridge

Granville Co. B-5320 DIVISION	46034.2.1, BRZ-1139(004)	\$300,000.00	Cost
	Replace Bridge #96 over the Tar River on SR 1139. Funds are	\$240,000.00	Fed.
	needed for full right of way and utilities.	\$60,000.00	State

Safety

Durham Co. W-5707C STATEWIDE	44853.3.3, HSIP-0040(055)	\$175,000.00	Cost
	I-40 westbound at US 15-501 south of Durham in Orange and	\$157,500.00	Fed.
	Durham Counties. Funds are needed for construction for safety improvements.	\$17,500.00	State

**NCDOT October 2017 Board of Transportation Agenda
Approval of Funds for Specific Federal - Aid Projects**

Division 6

Safety

Town/ County/PROJ CATEGORY	Project Description	Estimated Cost
Cumberland Co. W-5601FN DIVISION	50138.2.171, HSIP-1108(019) SR 1108 (Lakewood Drive) at SR 3670 (Middleton Court) and SR 3671 (Lullwater Drive). Funds are needed for full right of way and utilities.	\$90,000.00 Cost \$81,000.00 Fed. \$9,000.00 State

Rail Program

Maxton/ Robeson Co. Y-5500FC DIVISION	45533.3.13, RR-0630(004) Permanent closure of Third Street at-grade crossing CSX #630 976K, Milepost SE276.28 and signals at Malloy Street at-grade Crossing CSX #630 952W, SE275.44 and First Street at-grade Crossing CSX #630 975D, SE276.1 in Maxton, Robeson County, NC. Construction funds are needed for permanent closure of at-grade crossing.	\$200,000.00 Cost \$160,000.00 Fed. \$40,000.00 State
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Rural

Robeson Co. R-5752 DIVISION	53088.3.1, HSIP-0074(170) US 74 at SR 2220 (Broadbridge Road) convert at-grade intersection to interchange and SR 2225(Creek Road). Funds are needed for construction based on the estimate from the 12-Month Tentative Letting List published August 17, 2017. This is a two (2) year Cash Flow project with \$2,875,000 in FY 18; and \$2,875,000 in FY 19.	\$5,750,000.00 Cost \$4,650,000.00 Fed. \$1,100,000.00 State
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**NCDOT October 2017 Board of Transportation Agenda
Approval of Funds for Specific Federal - Aid Projects**

Division 7

Congestion Mitigation

Town/ County/PROJ CATEGORY	Project Description	Estimated Cost
Hillsborough/ Orange Co. C-5184 EXEMPT	46243.3.3, CMS-0711(014) Hillsborough-Riverwalk Trail - Phase III construct a paved off-road trail along Eno River connecting River Park Gold Park and the Occoneechee Mountain State natural area. Construction funds are needed for paved off-road trail.	\$486,000.00 Cost \$388,800.00 Fed. \$97,200.00 Local
Hillsborough/ Orange Co. C-5184 EXEMPT	46243.1.1, CMS-0711(014) Hillsborough-Riverwalk Trail - Phase III construct a paved off-road trail along Eno River connecting River Park Gold Park and the Occoneechee Mountain State natural area. \$87,200.00 has previously been approved for preliminary engineering. Additional funds are requested to complete design work.	\$15,000.00 Cost \$12,000.00 Fed. \$3,000.00 Local

Urban

Carrboro/ Orange Co. U-4726DD DIVISION	36268.3.35, STPDA-0702(022) Rogers Road sidewalk from Homestead Road to Meadow Run Court. Construction funds are needed for sidewalks.	\$575,972.00 Cost \$460,777.00 Fed. \$115,195.00 Local
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Bridge

Guilford Co. B-4958 DIVISION	40150.2.1, BRZ-2128(002) Replace Bridge #106 over Reed Fork Creek on SR 2128. Funds are needed for full right of way and utilities.	\$40,000.00 Cost \$32,000.00 Fed. \$8,000.00 State
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**NCDOT October 2017 Board of Transportation Agenda
Approval of Funds for Specific Federal - Aid Projects**

Division 7 (Continued)

Bridge

Town/ County/PROJ CATEGORY	Project Description	Estimated Cost
Rockingham Co. B-4805 DIVISION	38575.2.1, BRZ-2406(002) Replace Bridge #9 over a prong of Troublesome Creek on SR 2406. Funds are needed for full right of way and utilities.	\$75,000.00 Cost \$60,000.00 Fed. \$15,000.00 State
Rockingham Co. B-5715 DIVISION	45671.1.1, BRZ-2351(002) Replace Bridge #17 over Haw River on SR 2351. \$175,000.00 has previously been approved for preliminary engineering. Additional funds are needed based on the latest estimate.	\$30,000.00 Cost \$24,000.00 Fed. \$6,000.00 State
Rockingham Co. B-5715 DIVISION	45671.2.1, BRZ-2351(002) Replace Bridge #17 over Haw River on SR 2351. Funds are needed for full right of way and utilities.	\$40,000.00 Cost \$32,000.00 Fed. \$8,000.00 State

Safety

Guilford Co. W-5707F DIVISION	44853.3.6, HSIP-2269(001) SR 2269 (Alcorn Road) at SR 2131 (Northwest School Road) north of Greensboro. Construction funds are needed for safety improvements.	\$12,000.00 Cost \$10,800.00 Fed. \$1,200.00 State
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**NCDOT October 2017 Board of Transportation Agenda
Approval of Funds for Specific Federal - Aid Projects**

Division 7 (Continued)

Bicycle and Pedestrian

Town/ County/PROJ CATEGORY	Project Description	Estimated Cost
Orange Co. U-4726DF DIVISION	36268.3.27, STPDA-0702(024) Bicycle Detection at signalized intersections. Funds are needed for construction for the installation of in-pavement bike loop detectors at signalized intersections.	\$18,975.00 Cost \$15,180.00 Fed. \$3,795.00 Local

**NCDOT October 2017 Board of Transportation Agenda
Approval of Funds for Specific Federal - Aid Projects**

Division 8

Safety

Town/ County/PROJ CATEGORY	Project Description	Estimated Cost
Hoke Co. W-5708A REGIONAL	44854.2.1, HSIP-0015(055) US 15 / 501 at SR 1225 (Ashemont Road). Funds are needed for full right of way and utilities.	\$50,000.00 Cost \$45,000.00 Fed. \$5,000.00 State

Rail Program

Chatham Co. Y-5500HA DIVISION	45533.1.14, RR-2141(002) Closure of SR 2141 (B Beal Road) At-Grade Crossing; Norfolk Southern #721 039U, in Chatham County. Funds are needed for preliminary engineering.	\$20,000.00 Cost \$18,000.00 Fed. \$2,000.00 State
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**NCDOT October 2017 Board of Transportation Agenda
Approval of Funds for Specific Federal - Aid Projects**

Division 9

Safety

Town/ County/PROJ CATEGORY	Project Description	Estimated Cost
Divisionwide W-5601II STATEWIDE	50138.3.244, HSIP-000S(891) Install Severe Duty Impact Attenuator on multiple routes in Division 9. Construction funds are needed for safety improvements.	\$115,600.00 Cost \$104,040.00 Fed. \$11,560.00 State

Rural

Forsyth Co. R-5789B DIVISION	44919.3.3, TAP-0918(112) ADA (Americans with Disabilities Act) Curb Ramps at various locations with a population of >5,000. Funds are needed for construction to install or upgrade ADA ramps.	\$110,850.00 Cost \$88,680.00 Fed. \$22,170.00 State
Forsyth Co. R-5789C DIVISION	44919.3.4, TAP-0918(113) ADA (Americans with Disabilities Act) Curb Ramps at various location with a population of <5,000. Funds are needed for construction to install or upgrade ADA ramps.	\$44,563.00 Cost \$35,650.00 Fed. \$8,913.00 State

**NCDOT October 2017 Board of Transportation Agenda
Approval of Funds for Specific Federal - Aid Projects**

Division 10

Congestion Mitigation

Town/ County/PROJ CATEGORY	Project Description	Estimated Cost
Charlotte/ Mecklenburg Co. C-5542 EXEMPT	51012.3.F1, CMS-1003(124) South Tryon Street from Queen Anne Drive to Nations Ford Road. \$395,000.00 has previously been approved for construction. Additional funds are requested.	\$502,362.00 Cost \$251,181.00 Fed. \$251,181.00 Local

Enhancement

Divisionwide R-9999J DIVISION	34634.2.10, STP-000S(650) Division 10 - Environmental Mitigation and Minimization. \$400,000.00 has previously been approved for preliminary engineering. Additional funds are needed for FY 2017-2018 allocation.	\$100,000.00 Cost \$80,000.00 Fed. \$20,000.00 State
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Bridge

Stanly Co. B-5800 DIVISION	45754.3.1, BRZ-1253(005) Replace Bridge #160 over Ramsey Branch on SR 1253. Construction funds are needed for bridge replacement.	\$900,000.00 Cost \$720,000.00 Fed. \$180,000.00 State
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Safety

Anson Co. W-5710P STATEWIDE	44856.1.16, HSIP-0052(055) US 52 / US 74 / NC 742 (Andrew Jackson Highway) and SR 1472 (Salisbury Court / Main Street) in Wadesboro. Funds are needed for preliminary engineering.	\$25,000.00 Cost \$22,500.00 Fed. \$2,500.00 State
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**NCDOT October 2017 Board of Transportation Agenda
Approval of Funds for Specific Federal - Aid Projects**

Division 10 (Continued)

Safety

Town/ County/PROJ CATEGORY	Project Description	Estimated Cost
Cabarrus Co. W-5601EB STATEWIDE	50138.3.129, HSIP-0049(035) NC 49 at SR 1157 (Old Charlotte Road) near Concord. \$739,444.00 has previously been approved for construction. Additional construction funds are needed for safety improvements.	\$200,000.00 Cost \$180,000.00 Fed. \$20,000.00 State
Cabarrus Co. W-5710C DIVISION	44856.2.3, HSIP-2180(003) SR 2180 (Lane Street / Jackson Park Road) from US Main Street to a point just west of I-85 Ramps. Construction funds are needed for safety improvements.	\$50,000.00 Cost \$45,000.00 Fed. \$5,000.00 State
Mecklenburg Co. W-5601IK STATEWIDE	50138.3.246, HSIP-0485(045) I-485 Outer Loop Ramp at NC 16 in Charlotte. Construction funds are needed for safety improvements.	\$200,000.00 Cost \$180,000.00 Fed. \$20,000.00 State
Mecklenburg Co. W-5710R REGIONAL	44856.1.18, HSIP-0051(033) NC 51 from Park Road to Carmel Road in Pineville and Charlotte. Funds are needed for preliminary engineering.	\$400,000.00 Cost \$360,000.00 Fed. \$40,000.00 State

**NCDOT October 2017 Board of Transportation Agenda
Approval of Funds for Specific Federal - Aid Projects**

Division 10 (Continued)

Safety

Town/ County/PROJ CATEGORY	Project Description	Estimated Cost
Mecklenburg Co. W-5710S DIVISION	44856.1.19, HSIP-2108(002) SR 2108 (Sunset Avenue) and SR 2019 (Peachtree Road) near Charlotte. Funds are needed for preliminary engineering.	\$50,000.00 Cost \$45,000.00 Fed. \$5,000.00 State
Albemarle/ Stanly Co. W-5710D REGIONAL	44856.2.4, HSIP-0024(081) NC 24 / 27 and SR 1258 (Newt Road). Funds are needed for full right of way and utilities.	\$45,000.00 Cost \$40,500.00 Fed. \$4,500.00 State
Union Co. W-5210O DIVISION	45340.2.FD15, HSIP-1365(003) SR 1365 (Stallings Road) and SR 1367 (Matthews Indian Trail Road) in Stallings. \$150,000.00 has previously been approved for right of way and utilities. Additional funds are needed.	\$93,000.00 Cost \$83,700.00 Fed. \$9,300.00 State
Union Co. W-5710Q REGIONAL	44856.1.17, HSIP-0205(004) NC 205 / NC 218. Funds are needed for preliminary engineering.	\$150,000.00 Cost \$135,000.00 Fed. \$15,000.00 State

**NCDOT October 2017 Board of Transportation Agenda
Approval of Funds for Specific Federal - Aid Projects**

Division 11

Enhancement

Town/ County/PROJ CATEGORY	Project Description	Estimated Cost
Divisionwide R-9999K STATEWIDE	34634.2.11, STP-000S(651) Division 11 - Environmental Mitigation and Minimization. \$300,000.00 has previously been approved for preliminary engineering. Additional funds are needed for FY 2017-2018 allocation.	\$100,000.00 Cost \$80,000.00 Fed. \$20,000.00 State

Safety

Divisionwide W-5601GV STATEWIDE/ REGIONAL	50138.3.205, HSIP-000S(845) Upgrade guardrail end units at various locations. Construction funds are needed for safety improvements.	\$1,600,000.00 Cost \$1,440,000.00 Fed. \$160,000.00 State
Surry Co. W-5601GW STATEWIDE/ REGIONAL	50138.3.206, HSIP-000S(844) Upgrade guardrail end units at various locations. Construction funds are needed for safety improvements.	\$525,000.00 Cost \$472,500.00 Fed. \$52,500.00 State
Wilkes Co. W-5521 STATEWIDE	50095.3.1, HSIP-0421(081) US 421 near SR 1301 (Fall Creek Road). Construction funds are needed for safety improvements.	\$2,900,000.00 Cost \$2,610,000.00 Fed. \$290,000.00 State

**NCDOT October 2017 Board of Transportation Agenda
Approval of Funds for Specific Federal - Aid Projects**

Division 12

Safety

Town/ County/PROJ CATEGORY	Project Description	Estimated Cost
Cleveland Co. W-5712A REGIONAL	44858.2.1, HSIP-0180(006) NC 180 (South Post Road) at SR 2202 (Beam Road / Joe's Lake Road). Funds are needed for full right of way and utilities.	\$800,000.00 Cost \$720,000.00 Fed. \$80,000.00 State

**NCDOT October 2017 Board of Transportation Agenda
Approval of Funds for Specific Federal - Aid Projects**

Division 13

Enhancement

Town/ County/PROJ CATEGORY	Project Description	Estimated Cost
Divisionwide R-9999M STATEWIDE	34634.2.13, STP-000S(653) Division 13 - Environmental Mitigation and Minimization. \$300,000.00 has previously been approved for preliminary engineering. Additional funds are needed for FY 2017-2018 allocation.	\$100,000.00 Cost \$80,000.00 Fed. \$20,000.00 State
Forest City/ Rutherford Co. ER-5600MA DIVISION	46305.3.40, STBG-0074(207) US 74 and US 221A interchange. Construction funds are needed for landscape enhancement.	\$303,000.00 Cost \$242,400.00 Fed. \$60,600.00 State

Safety

Buncombe Co. W-5713L REGIONAL	44861.2.12, HSIP-0191(017) NC 191 (Brevard Road) at NC 146 (Long Shoals Road). Funds are needed for full right of way and utilities.	\$280,000.00 Cost \$252,000.00 Fed. \$28,000.00 State
Madison Co. W-5713N REGIONAL	44861.3.14, HSIP-0025(042) US 25 / 70 at SR 1582 (Long Branch Road) near Marshall. Construction funds are needed for safety improvements.	\$263,000.00 Cost \$236,700.00 Fed. \$26,300.00 State

**NCDOT October 2017 Board of Transportation Agenda
Approval of Funds for Specific Federal - Aid Projects**

Division 14

Urban

Town/ County/PROJ CATEGORY	Project Description	Estimated Cost
Fletcher/ Henderson Co. U-5872 EXEMPT	46415.3.1, STPDA-0025(037) US 25 (Hendersonville Road) from SR 1545 (Cane Creek Road) to SR 1006 (Howard Gap Road). Construction funds are needed for roadway improvements.	\$1,944,000.00 Cost \$1,555,200.00 Fed. \$388,800.00 Local

**NCDOT October 2017 Board of Transportation Agenda
Approval of Funds for Specific Federal - Aid Projects**

Statewide

Congestion Mitigation

Town/ County/PROJ CATEGORY	Project Description	Estimated Cost
Statewide C-4902A EXEMPT	44002.1.2, CMS-000S(732) North Carolina State University - NC Solar Clean Fuel Advanced Technology Program-Phase III. \$5,940,220.00 has previously been approved for preliminary engineering. Additional funds are needed to develop and administer a clean fuel advanced technology rebate program.	\$359,725.00 Cost \$287,780.00 Fed. \$71,945.00 Local
Statewide C-5600K DIVISION	50061.1.12, CMAQ-0085(035) I-85 Integrated Corridor Management System. Funds are needed for preliminary engineering.	\$800,000.00 Cost \$640,000.00 Fed. \$160,000.00 State

Safety

Statewide Z-5700EA REGIONAL	44803.3.10, HSIP-000S(894) SYSTEMIC Project: All open public railroad grade crossings at paved state-maintained roads in Division 5 and Division 6. Construction funds are needed for safety improvements.	\$330,000.00 Cost \$297,000.00 Fed. \$33,000.00 State
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Planning and Research

Statewide M-0526 STATEWIDE	47625.1.1, SHRP-000S(898) SHRP2-Research Project (R06A). Funds are needed for Research.	\$42,500.00 Cost \$40,000.00 Fed. \$2,500.00 State
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**NCDOT October 2017 Board of Transportation Agenda
Approval of Funds for Specific Federal - Aid Projects**

Statewide (Continued)

Town/ County/PROJ CATEGORY	Project Description	Estimated Cost
Supportive Services Work Program		
Statewide M-0478E STATEWIDE	50141.1.5, OJT-00JT(022) On-The-Job Training. Funds are needed for FY2017 OJT Supportive Services.	\$156,461.00 Cost \$156,461.00 Fed.

Rural

Statewide R-9999WM STATEWIDE	34634.1.1, STP-000S(230) Improvements to NCDOT'S wetland prediction model. \$65,373,651.00 has previously been approved for preliminary engineering. Additional funds are requested for FY 2017-2018 allocation.	\$600,000.00 Cost \$480,000.00 Fed. \$120,000.00 State
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ITEM M SUMMARY - 67 PROJECT(S) - (TOTAL FEDERAL AND STATE) \$43,617,758.00

REVISIONS TO THE 2016-2025 AND 2018-2027 STIPS

HIGHWAY PROGRAM
STIP ADDITIONS

DIVISION 7

* C-5650	SR 1919 (SMITH LEVEL ROAD / S. GREENSBORO ST),	ENGINEERING	FY 2018 -	\$84,000	(STBGDA)
ORANGE	PUBLIC WORKS DRIVE TO N. END OF OLD PITTSBORO		FY 2018 -	\$21,000	(L)
PROJ.CATEGORY	ROAD IN CARRBORO. CONSTRUCT 3,100 LF SIDEWALK	RIGHT-OF-WAY	FY 2018 -	\$100,000	(STBGDA)
DIVISION	ON ONE SIDE.		FY 2018 -	\$25,000	(L)
	<u>PROJECT ADDED AT REQUEST OF TRANSPORTATION</u>	CONSTRUCTION	FY 2018 -	\$440,000	(CMAQ)
	<u>PLANNING BRANCH AND MPO</u>		FY 2018 -	\$530,000	(STBGDA)
			FY 2018 -	\$748,000	(L)
				\$1,948,000	

STIP MODIFICATIONS

DIVISION 5

* C-5567	EAST LYON STATION GREENWAY, TOWN OF BUTNER	RIGHT-OF-WAY	FY 2018 -	\$28,000	(CMAQ)
GRANVILLE	GREENWAY EXTENSION. CONSTRUCT MULTI-USE		FY 2018 -	\$7,000	(L)
PROJ.CATEGORY	PATH.	CONSTRUCTION	FY 2018 -	\$144,000	(CMAQ)
EXEMPT	<u>TO ALLOW TOWN ADDITIONAL TIME FOR PLANNING</u>		FY 2018 -	\$36,000	(L)
	<u>AND DESIGN, DELAY RIGHT OF WAY AND</u>			\$215,000	
	<u>CONSTRUCTION FROM FY 17 TO FY 18 [16-25 STIP] /</u>				
	<u>ADD RIGHT OF WAY AND CONSTRUCTION IN FY 18</u>				
	<u>NOT PREVIOUSLY PROGRAMMED [18-27 STIP].</u>				

* I-5873	I-40, NC 54 IN RALEIGH. INTERCHANGE	RIGHT-OF-WAY	FY 2018 -	\$920,000	(NHP)
WAKE	IMPROVEMENTS.	CONSTRUCTION	FY 2019 -	\$6,384,000	(NHP)
PROJ.CATEGORY	<u>ADD RIGHT-OF-WAY IN FY 18 NOT PREVIOUSLY</u>			\$7,304,000	
REGIONAL	<u>PROGRAMMED, TO REFLECT CURRENT DELIVERY</u>				
	<u>SCHEDULE [16-25 STIP].</u>				

* U-5927A	SR 2768 / SR 5056 NORTH JUDD PKWY NE, SR 3736	CONSTRUCTION	FY 2018 -	\$1,686,000	(STPDA)
WAKE	(OLD HONEYCUTT ROAD) TO NORTH OF		FY 2018 -	\$1,124,000	(L)
PROJ.CATEGORY	INTERSECTION OF SR 5056 (N. JUDD PARKWAY NE)			\$2,810,000	
DIVISION	AND SR 1402 (E. BROAD STREET)				
	<u>TO ALLOW TOWN ADDITIONAL TIME FOR DESIGN,</u>				
	<u>DELAY CONSTRUCTION FROM FY 17 TO FY 18 [16-25</u>				
	<u>STIP] / ADD CONSTRUCTION IN FY 18 NOT</u>				
	<u>PREVIOUSLY PROGRAMMED [18-27 STIP].</u>				

DIVISION 7

B-5352	US 220 (NORTHBOUND), REPLACE BRIDGE 780131	CONSTRUCTION	FY 2018 -	\$975,000	(NHPB)
ROCKINGHAM	OVER NORFOLK SOUTHERN RAILROAD.		FY 2019 -	\$975,000	(NHPB)
PROJ.CATEGORY	<u>ACCELERATE CONSTRUCTION FROM FY 19 TO FY 18</u>			\$1,950,000	
STATEWIDE	<u>AT REQUEST OF STRUCTURES MANAGEMENT UNIT</u>				

* INDICATES FEDERAL AMENDMENT

REVISIONS TO THE 2016-2025 AND 2018-2027 STIPS

HIGHWAY PROGRAM
STIP MODIFICATIONS

DIVISION 7

* B-5553 GUILFORD PROJ.CATEGORY DIVISION	BALLINGER ROAD, REPLACE BRIDGE 400098 OVER A TRIBUTARY OF HORSEPEN CREEK IN GREENSBORO. <u>TO ALLOW ADDITIONAL TIME FOR THE CITY TO COMPLETE PROJECT DESIGN, DELAY RIGHT-OF-WAY FROM FY 17 TO FY 18 AND CONSTRUCTION FROM FY 18 TO FY 19</u>	RIGHT-OF-WAY CONSTRUCTION	FY 2018 - FY 2018 - FY 2019 - FY 2019 -	\$60,000 \$15,000 \$600,000 \$150,000	(STPON) (L) (STPON) (L)
				\$825,000	
* I-5964 GUILFORD PROJ.CATEGORY STATEWIDE	I-40 / BUSINESS 85 / US 29 / US 70 / US 220, ELM-EUGENE STREET IN GREENSBORO. INTERCHANGE IMPROVEMENTS. <u>ADD RIGHT-OF-WAY AND CONSTRUCTION IN FY 18 NOT PREVIOUSLY PROGRAMMED, TO REFLECT CURRENT DELIVERY SCHEDULE [16-25 STIP].</u>	RIGHT-OF-WAY CONSTRUCTION	FY 2018 - FY 2018 - FY 2018 -	\$75,000 \$25,000 \$300,000	(NHP) (NHP) (NHP)
				\$400,000	
* U-5543 DURHAM ORANGE PROJ.CATEGORY REGIONAL	VARIOUS, VARIABLE MESSAGE SIGNS FOR TRAFFIC MANAGEMENT ON MAJOR CORRIDORS IN CHAPEL HILL. <u>AT REQUEST BY THE TOWN AND MPO, DELAY CONSTRUCTION FROM FY 17 TO FY 18</u>	CONSTRUCTION	FY 2018 - FY 2018 -	\$419,000 \$105,000	(STBGDA) (L)
				\$524,000	

DIVISION 8

* P-5724 SCOTLAND PROJ.CATEGORY DIVISION	CSX, RAIL SPUR FOR INDUSTRIAL ACCESS. CONSTRUCT SPINE TRACK AND TURNOUTS, AND REHABILITATE EXISTING TRACK SECTIONS. <u>TO REFLECT CURRENT DELIVERY SCHEDULE, DELAY CONSTRUCTION FROM FY 17 TO FY 18 [16-25 STIP] / ADD CONSTRUCTION IN FY 18 NOT PREVIOUSLY PROGRAMMED [18-27 STIP]</u>	CONSTRUCTION	FY 2018 - FY 2018 - FY 2018 -	\$162,000 \$1,291,000 \$7,829,000	(S) (T) (O)
				\$9,282,000	
* W-5208MA SCOTLAND PROJ.CATEGORY REGIONAL	US 15 / US 501, NC 144 INTERSECTION. CONSTRUCT ROUNDABOUT <u>TO ALLOW ADDITIONAL TIME FOR UTILITY COORDINATION, DELAY CONSTRUCTION FROM FY 17 TO FY 18 [16-25 STIP] / ADD CONSTRUCTION IN FY 18 NOT PREVIOUSLY PROGRAMMED [18-27 STIP].</u>	CONSTRUCTION	FY 2018 -	\$2,500,000 \$2,500,000	(HSIP)

* INDICATES FEDERAL AMENDMENT

REVISIONS TO THE 2016-2025 AND 2018-2027 STIPS

HIGHWAY PROGRAM
STIP MODIFICATIONS

DIVISION 11

<p>* W-5521 WILKES PROJ.CATEGORY STATEWIDE</p>	<p>US 421, US 421 NEAR SR 1301 (FALL CREEK ROAD). REALIGNMENT, MEDIAN BARRIER INSTALLATION, AND RUMBLE STRIPS. <u>TO ALLOW ADDITIONAL TIME FOR DESIGN, DELAY CONSTRUCTION FROM FY 17 TO FY 18</u></p>	<p>CONSTRUCTION FY 2018 - <u>\$2,900,000</u> (HSIP) \$2,900,000</p>
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ITEM N SUMMARY

ADDITIONS	1	PROJECTS	\$1,948,000
MODIFICATIONS	10	PROJECTS	
	11	PROJECTS	\$1,948,000

* INDICATES FEDERAL AMENDMENT

NODOT October 5, 2017 Board of Transportation Agenda

SUMMARY: There are a total of 31 agreements for approval by the Board of Transportation.

Division 2

North Carolina Global
TransPark Authority
Lenoir County
43561.2.6

This Project consists of the reconstruction of Building #5 at the Global TransPark and for the relocation of part of the Division 2 staff. The Global TransPark will reimburse the Department 100% of the work up to a maximum of \$535,000.

City of New Bern
Craven County
49027

This Agreement consists of the abandonment of a portion of Old Airport Road from the State System and the City of New Bern adding this section of Old Airport Road to their system in consideration for the Department providing \$500,000 for the resurfacing and/or repair of the specified route. Upon adoption of Old Airport Road, from Taberna Circle to County Line Road onto their system, the Municipality shall be responsible for all future maintenance of this section of Old Airport Road.

Division 3

County of New Hanover
EB-5543
45846.1.1
45846.2.1
45846.3.1

This Project consists of on-road bicycle lanes on Covil Farm Road and Red Cedar Road, an off-road multi-use path or sidewalk along Middle Sound Loop Road, an on-road path along Oyster Road and Bright Leaf Road, and a pedestrian bridge connecting to Thais Trail. The Department's participation amount was \$229,674. This Supplemental Agreement is for the Department to provide additional funding in the amount of \$136,372 from Transportation Alternatives Program funds. The County will provide an additional \$34,093 for a total of \$91,512 as their local match. Costs which exceed the revised maximum amount of \$366,046 shall be borne by the County.

County of New Hanover
SR-5001BO
40924.3.66

This Project consists of construction of an 8' off-road multi-use pathway from SR 1916 (Red Cedar Road) connecting to the sidewalk at Ogden Elementary School and installation of a multi-use path or sidewalk from existing sidewalk at Ogden Elementary School to both SR 1823 and SR 1986; on-road bicycle improvements along SR 1930, SR 1971 (Humphrey Drive), and SR 1929; and a 10' off-road multi-use trail with pedestrian bridge off of Bright Leaf Road. The Department's participation amount was \$300,000. This Supplemental Agreement is for the Department to provide additional funding in the amount of \$110,000 from Safe Routes to School funds. Costs which exceed the revised maximum amount of \$410,000 shall be borne by the County.

NODOT October 5, 2017 Board of Transportation Agenda

Division 3, cont.

CSX Transportation, Inc. (CSXT)
Town of Warsaw
Duplin County
Y-5500CB
45533

This Rail agreement consists of the permanent closure of the municipal at-grade railroad crossing of Plank Street (Crossing # 628 893W, milepost AC 189) and for the installation of signals at Dudley Street (Crossing # 624 710K, milepost AC 188.48). CSXT shall perform all work within the railroad right-of-way. The Department shall perform all work outside of the railroad right-of-way. CSXT shall reimburse the Department \$4,000 toward the cost of the crossing closure, and reimburse the Municipality \$9,000 as an incentive payment for closing the crossing. The Department shall pay CSXT ten percent (10%) of the actual cost of the crossing signal installation at Dudley Street as a matching incentive for the crossing closure. The estimated cost of the Project is \$500,000. Due to a revision in crossing numbers, this Agreement supersedes the prior Board of Transportation approval on December 1, 2016.

Division 4

City of Rocky Mount
Nash County
C-5549
51019.1.1
51019.3.1

This Project consists of the construction of sidewalks along Nashville Road, West Raleigh Boulevard, Winstead Avenue and East Raleigh Boulevard. The Municipality is responsible for all phases of the Project. The Department shall reimburse 80% of approved eligible costs from the Congestion Mitigation and Air Quality funds allocation, not to exceed \$739,000. The Municipality will be responsible for providing the 20% (\$184,750) non-federal match for the CMAQ funds authorized and all costs that exceed the total available funding.

City of Goldsboro
North Carolina Railroad
Company (NCRR)
Norfolk Southern Railroad
Company (NSR)
Wayne County
Y-5500FC
Z-5400DM
45533
43600

This Rail Agreement consists of the permanent closure of the municipal at-grade highway-railroad crossing at Mulberry Street (Crossing # 730 305E, milepost H 128.51). As mitigation for the crossing closure, the project will include the installation of signal devices at the municipal at-grade highway-railroad crossings at Bain Street (Crossing # 722 874X, milepost EC 1.15) and Bryant Street (Crossing # 722 875E, milepost EC 1.1). The Department will perform all work not on railroad right-of-way. NSR will perform all work within their right-of-way. The Department will reimburse NSR for actual costs of the installation of the signal devices. The estimated cost of the Project is \$550,000.

NODOT October 5, 2017 Board of Transportation Agenda

Division 5

Town of Knightdale
Wake County
C-5604HA
43714.2.10
43714.3.10

This Project consists of the construction of approximately 6,700 linear feet of greenway from Mingo Creek Greenway to Knightdale Station Park in Knightdale. The Municipality is responsible for all aspects of the Project. The Department shall reimburse 80% of eligible expenses from CMAQ funds up to \$2,057,600. The Municipality shall provide the 20% non-federal match (\$514,400) for the federal funds authorized and all costs that exceed the total available funding.

City of Oxford
Granville County
C-5610B
43732.1.3
43732.2.3
43732.3.3

This Project consists of the extension of concrete sidewalk on Industry Drive beginning at driveway at Granville Corners Shopping Center to Lewis Street in Oxford. The Municipality is responsible for all aspects of the Project. The Department shall reimburse 80% of eligible expenses from CMAQ funds up to \$510,000. The Municipality shall provide the 20% non-federal match (\$127,500) for the federal funds authorized and all costs that exceed the total available funding.

Town of Garner
Wake County
C-5604RA
43714.1.13
43714.3.13

This Project consists of new sidewalk connecting existing sidewalks along Timber Drive with five new signalized pedestrian crossings in Garner. The Municipality is responsible for all aspects of the Project. The Department shall reimburse 80% of eligible expenses from CMAQ and STPDA funds up to \$325,352. The Municipality shall provide the 20% non-federal match (\$81,338) for the federal funds authorized and all costs that exceed the total available funding.

City of Durham
Durham County
EB-5904
47469.1.1
47469.2.1
47469.3.1

This Project consists of pedestrian and bicycle improvements from Pettigrew Street to Avondale Drive, constructing a multiuse trail on a former rail corridor in Durham. The Municipality is responsible for all aspects of the Project. The Department shall reimburse 80% of eligible expenses from TAP funds up to \$6,280,000. The Municipality shall provide the 20% non-federal match (\$1,570,000) for the federal funds authorized and all costs that exceed the total available funding.

Durham-Chapel Hill-Carrboro
Metropolitan Planning
Organization (DCHCMPO)
City of Durham
Durham County
M-0522
47433.1.32

This Project consists of planning services related to the development of the Downtown Durham Transportation Study. For services associated with the study, the Department's total reimbursement shall not exceed \$250,000 of total approved eligible costs from State Planning and Research Funds.

NODOT October 5, 2017 Board of Transportation Agenda

Division 7

City of Reidsville
Rockingham County
17BP.7.R.104

This Project consists of relocating a 12" waterline for Bridge #283 replacement on SR 2686 (Richardson Drive) in Reidsville. The Department shall place provisions in the construction contract for the contractor to adjust and relocate the water line. The Municipality shall be responsible for 25% of the cost of the work. The estimated cost to the Municipality is \$16,775.92.

City of Greensboro
Guilford County
EB-5876
47271.3.1

This Project consists of the construction of sidewalk improvements and compliant wheel chair ramps along the western side of Holden Road north to existing sidewalk in Greensboro. The Municipality is responsible for all aspects of the Project. The Department shall reimburse 80% of eligible expenses from TAP funds up to \$314,400. The Municipality shall provide the 20% non-federal match (\$78,600) for the federal funds authorized and all costs that exceed the total available funding.

City of Greensboro
Guilford County
EL-5101DO
41823.2.FD17
41823.3.FD17

This Project consists of construction in various phases of the Downtown Greenway to include multi-use paths, sidewalks and curb reconstruction of sections on Fisher Avenue, Eugene Street and Smith Street in Greensboro. This Supplemental Agreement is to remove Phase 3 from the scope and extend the completion date of the Project. The Municipality shall complete all work outlined in the Agreement by November 30, 2018 in lieu of January 28, 2018.

Division 9

Winston-Salem City/County
Utilities Division
Forsyth County
B-5152
42313.1.1

This Project consists of the replacement of Bridge 95 over Blanket Creek on SR 1100 (Lasater Road) in Winston-Salem. At the request of the Municipality, the Department shall place provisions in the construction contract for the contractor to adjust and relocate sewer lines. The Municipality shall pay 100% of the cost of the work. The estimated reimbursement from the Municipality is \$60,570.

Division 10

City of Albemarle
Stanly County
17BP.10.R.103

This Project consists of the replacement of Bridge No. 213 on SR 1720 (Stony Gap Road). At the request of the Municipality, the Department shall use its utility engineering firm to design the utility plans for the relocation of sewer lines. The estimated reimbursement from the Municipality is \$3,739.71. This agenda item supersedes the item that was approved by the Board of Transportation on September 7, 2017.

NODOT October 5, 2017 Board of Transportation Agenda

Division 10, cont.

Norfolk Southern Railway
Company (NSR)
City of Charlotte
Mecklenburg County
P-5705BA
P-5705BB
44475

This Rail Agreement consists of the permitting, grading, track, and railroad signal construction necessary to complete the station tracks, platform, and canopy at approximately milepost 378 associated with the Charlotte Gateway Station Project. NSR will perform work associated with the track and signals including track construction, not performed by the Department. In addition, NSR will provide engineering and flagging services to support the Department's railroad roadbed, structures, and utilities. The estimated cost to the Department will largely be reimbursed by the Municipality out of FFY 2015 TIGER funds subject to a separate Municipal agreement, previously approved by the Board of Transportation on April 6, 2017.

Norfolk Southern Railway
Company (NSR)
City of Charlotte
Mecklenburg County
P-5705BA
P-5705BB
44475

This Rail Agreement consists of the maintenance responsibility for the station track infrastructure at approximately milepost 378 associated with the Charlotte Gateway Station Project. NSR, and the Municipality, will perform all on-going work associated with the maintenance. To include inspection, repair, renewal of track, signals and signal appurtenances, and structures along the station tracks/connecting tracks in accordance with NSR standards and specifications. The Municipality will be solely responsible for reimbursing NSR for costs and expenses of maintenance. There will be no cost to the Department.

Town of Midland
Cabarrus County
C-5603E
43715.1.5
43713.3.5

This Project consists of the design and construction of sidewalk on Bethel School Road between the Rob Wallace County Park and the Saddlebrook/Bethel Glen/Brentwood developments to include a crosswalk and pedestrian traffic signal. The Municipality is responsible for all phases of the Project. The Department shall reimburse 80% of eligible expenses from CMAQ funds allocation not to exceed \$108,029. The Municipality shall provide the 20% non-federal match (\$27,007) and all costs that exceed the total estimated cost of \$135,036.

Town of Cornelius
Mecklenburg County
U-5108
42370.1.1
42370.2.2
42370.3.2

This Project consists of the construction of Northcross Drive Extension from the end of Northcross Drive (SR 2316) to Westmoreland Road (SR 2430) in Cornelius. The Department shall prepare the planning document, project plans and specifications, acquire any needed right of way, and construct the Project. The Municipality shall participate in 20% (\$2,511,577) of the costs of the Project. The estimated cost of the project is \$10,231,577.

NODOT October 5, 2017 Board of Transportation Agenda

Division 10, cont.

Town of Cornelius
Mecklenburg County
EB-5777
46420.2.1
46420.3.1

This Project consists of the construction of a 1.6 mile paved trail from Catawba Avenue to Westmoreland Road. The Municipality is responsible for all phases of the Project. This Supplemental Agreement is to expand the scope of the project and revise the funding. The Department's original participation was \$1,400,000 in STBGDA funds. The Department shall utilize TAPDA funds in lieu of STBGDA funds for the 80% reimbursement and increase funding for a total maximum reimbursement of \$2,400,000 in TAPDA funds. The Municipality will be responsible for providing the 20% (\$600,000) non-federal match and all costs that exceed the total estimated cost.

Centralina Council of
Governments
Mecklenburg County
M-0522
47433.1.17

This Project consists of the development of an Autonomous and Connected Vehicles (ACV) Workshop Series. The Agency is responsible for all phases of the Project. The Department will reimburse the Agency 100% of eligible expenses with Federal SPR funds and state match up to a maximum amount of \$39,062.

City of Charlotte
Mecklenburg County
U-5874
46437.2.1
46437.3.1

This Project consists of construction of a bridge over I-85 just north of the I-85/Harris Boulevard Interchange and will create a new facility parallel to Harris Boulevard. The project will provide a connection from Research Drive to JW Clay Boulevard and includes improvements to Research Drive. The Municipality is responsible for all phases of the Project. The Department shall reimburse 80% of approved eligible costs from STBGDA funds allocation, in an amount not to exceed \$7,400,000 and 50% of approved eligible costs from CMAQ funds allocation, in an amount not to exceed \$1,750,000 for a total maximum reimbursement of \$9,150,000. The Municipality will be responsible for providing the non-federal match (\$3,600,000) for the federal funds authorized and all costs that exceed the total available funding.

Division 11

Town of Boone
Watauga County
B-5979
47431.1.1
47431.2.1
47431.3.1

This Project consists of the replacement of Municipal Bridge No. 940346 on Hunting Hills Lane over South Fork of New River in Boone. The Municipality is responsible for all phases of the project. The Department shall reimburse 80% of eligible expenses from STP funds allocation not to exceed \$1,520,000. The Municipality shall provide the 20% non-federal match (\$380,000) and all costs that exceed the total estimated cost of \$1,900,000.

NODOT October 5, 2017 Board of Transportation Agenda

Division 12

City of Hickory
Catawba County
12.101811
12.201811

This Project consists of the routine maintenance of "Subject Roads and Right of Way" in the State Highway System within the Municipality. This supplemental agreement is for an increase in funding. The Department's original participation was \$140,000 for annual maintenance. The Department agrees to reimburse the Municipality an additional \$79,980 in project funds.

Piedmont and Northern
Railroad, LLC (Railroad)
Gaston County
80000.2.2.6

This Rail Agreement consists of the procurement and installation of digital wireless remote crossing monitoring units for eleven (11) highway-railway at-grade crossings along the state-owned Piedmont and Northern rail line in Gaston County. The Railroad shall perform all of the work. The Department will reimburse the Railroad up to \$40,000 for only the procurement cost of the monitoring units. Due to a change in the Parties to the Agreement from Progressive Rail Incorporated to Piedmont and Northern Railroad, LLC, (a wholly owned subsidiary of Progressive Rail Inc.), this Agreement supersedes the prior board approval on September 7, 2017.

City of Conover
Catawba County
EB-5803
46459.3.1

This Project consists of 1st Avenue Area Bicycle and Pedestrian improvements. The Municipality is responsible for all phases of the Project. This Supplemental Agreement is to include additional maintenance responsibilities as part of the project. The Municipality shall assume all maintenance responsibilities for the Bicycle and Pedestrian improvements, including the maintenance of trees and shrubs to maintain clear zone setback and clear sight distance.

Division 13

City of Morganton
Burke County
U-6057
47412.3.1

This Project consists of the construction of a connector road from NC 18 (South Sterling Street) to SR 1708 (West Parker Road). The Municipality shall be responsible for all phases of the Project. The Department shall reimburse 100% of the approved eligible costs from the Appalachian Development Highway Program funding, not to exceed \$1,375,000. The Municipality will be responsible for all costs that exceed the federal award amount.

NODOT October 5, 2017 Board of Transportation Agenda

Division 14

Town of Fletcher
Henderson County
R-5207C
45393.3.5

This Project consists of roadway improvements on SR 1006 (Howard Gap Road) from SR 1539 (Jackson Road) to US 25. The Department shall prepare the environmental and/or planning document, Project plans and specifications, construct the Project, and acquire any needed right of way. At the request of the Municipality, the Department shall include in its contract the construction of sidewalk within the project limits. The Municipality shall reimburse the Department 20% of the actual cost of the work. The estimated reimbursement from the Municipality is \$2,799.

Town of Sylva
Jackson County
EB-5923
47589.1.1
47589.2.1
47589.3.1

This Project consists of the construction of sidewalk on both sides of SR 1431 (Skyland Drive) from US 23 Business to East Sylva Circle and on the west side of Skyland Drive from East Sylva Circle to SR 1429 (Chipper Curve Road). The Department is responsible for all phases of the Project. The Municipality shall provide the 20% (\$103,713) non-federal match to the federal funds authorized and all costs that exceed the total estimated cost of \$518,567.

NODOT October 5, 2017 Board of Transportation Agenda

SUMMARY: There are a total of 16 agreements for informational purposes only.

Division 1

Town of Jamesville
Martin County
36249.3829

This Project consists of the repair of approximately 50 LF of outfall ditch on Stewart Street in Jamesville, including slope restoration, installation of 30 tons of Class B rip rap, erosion control matting and seeding. The Department shall be responsible for all phases of the Project. The Municipality shall reimburse the Department 100% of the cost of the work performed by the Department. The estimated reimbursement from the Municipality is \$4,757.28.

Division 3

MDI Management, LLC
Brunswick County
36249.3824

This Project consists of review and inspection of a traffic signal installation of a temporary signal installation at NC 133 and a commercial driveway north of NC 211 related to the Southport Crossings development. The Developer shall reimburse the Department 100% of the cost of the Department's review and inspection of the signals. The estimated reimbursement is \$5,000.

Town of Ocean Isle Beach
Brunswick County
R-3432(L)
35501.3.2

This Project consists of Landscape vegetation enhancement within the roundabout located at SR 1163 (Old Georgetown Road) and SR 1184 (Ocean Isle Beach Road SW). The Department shall develop the landscape design, prepare plans and site and install the plantings. The Municipality shall assume maintenance of the plantings after one year.

Division 4

Edgecombe Community College
Edgecombe County
80036

This Project consists of the construction of an access road from off of NC 111 at Edgecombe Community College that is approximately 3050 feet. The Agency shall be responsible for all phases of the Project. The Department shall participate in actual costs in an amount not to exceed \$550,000. Costs which exceed this amount shall be borne by the Agency.

Division 5

Ellis Road Commercial LP
Durham County
36249.3818

This Project consists of the installation of a traffic signal at Ellis Road and the Site Driveway/Commercial Entrance. The Department will review the traffic signal plans and inspect the traffic signal installation. The Developer shall reimburse the Department 100% of the cost of the Department's review and inspection. The estimated reimbursement is \$5,000.

October 5, 2017

NODOT October 5, 2017 Board of Transportation Agenda

Division 5, cont.

Keith Corporation
Durham County
36249.3822

This Project consists of the installation of a new traffic signal at NC 54 and Triangle Drive. The Department will review the traffic signal plans and inspect the traffic signal installation. The Developer shall reimburse the Department 100% of the cost of the Department's review and inspection. The estimated reimbursement is \$5,000.

Leyland Twin Lakes
Wake County
36249.3821

This Project consists of the installation of two new traffic signals at SR 1613 (Davis Drive) at Holly Creek Road, and Davis Drive at SR 3015 (Airport Boulevard). The Department will review the traffic signal plans and inspect the traffic signal installation. The Developer shall reimburse the Department 100% of the cost of the Department's review and inspection. The estimated reimbursement is \$7,500.

Ballentine Associates
Wake County
36249.3823

This Project consists of the installation of a new traffic signal at US 401 (Louisburg Road) at Hampton Lake Drive and Jonesville Road. The Department will review the traffic signal plans and inspect the traffic signal installation. The Developer shall reimburse the Department 100% of the cost of the Department's review and inspection. The estimated reimbursement is \$5,000.

Love's Travel Stops & Country
Stores
Wake County
36249.3826

This Project consists of traffic signal modifications at three intersections on SR 2817 (Barnes Street): at SR 2594 (Holiday Loop Road); at US 29 NB Ramps; and at US 29 SB Ramps. The Department will review the traffic signal plans and inspect the traffic signal installation. The Developer shall reimburse the Department 100% of the cost of the Department's review and inspection. The estimated reimbursement is \$15,000.

Division 8

Town of Pittsboro
Chatham County
3608.3.07

This Project consists of construction of new concrete sidewalk along SR 1967 (Pittsboro Elementary School Road) in Pittsboro. This Supplemental Agreement is to extend the completion date of the Project to October 31, 2017 in lieu of March 31, 2017.

NODOT October 5, 2017 Board of Transportation Agenda

Division 9

Levcor, Inc.
Forsyth County
36249.3832

This Project consists of installation of a traffic signal at US 158 at Burke Mill Road/Atwood Road due to planned roadway improvements. The Department will review the traffic signal plans and inspect the traffic signal installation. The Developer shall reimburse the Department 100% of the cost of the Department's review and inspection. The estimated reimbursement is \$1,500.

Division 10

Myers-Chapman
Union County
36249.3828

This Project consists of the installation of a traffic signal for two intersections at NC 200 (N. Martin Luther King, Jr Boulevard) and the Union Academy School at Entrance #1 and Entrance #2. The Department will review the traffic signal plans and inspect the traffic signal installation. The Developer shall reimburse the Department 100% of the cost of the Department's review and inspection. The estimated reimbursement is \$10,000.

Division 13

Windsor Built Homes, Inc.
Buncombe County
36249.3825

This Project consists of the widening of existing Bridge No. 231 on SR 2106 for a Proposed 134 Lot Subdivision. The Department shall be responsible for all phases of the Project. The Developer shall reimburse the Department 100% of the cost of the work performed by the Department. The estimated reimbursement from the Developer is \$125,000.

Town of Forest City
Rutherford County
ER-5600MA
46305.3.40

This Project consists of landscape plantings at the interchange of US 74 and US 221A in Forest City. The Department shall develop the landscape design, prepare plans and site and install the plantings. The Municipality shall assume maintenance of the landscaping items after one year.

Division 14

Shining Rock Classical
Academy
Haywood County
36249.3827

This Project consists of installing flashing beacons at the Shining Rock Classical Academy. The Department is responsible for all phases of the Project. The Developer shall reimburse the Department 100% of the cost of the work performed by the Department. The estimated reimbursement is \$13,000.

NODOT October 5, 2017 Board of Transportation Agenda

Division 14, con't.

Town of Dillsboro
Jackson County
36249.3830

This Project consists of an Asphalt Surface Treatment (AST) for 920 square yards of walking paths in the Town of Dillsboro. The Department is responsible for all phases of the Project. The Municipality shall reimburse the Department 100% of all work performed by the Department. The estimated reimbursement is \$4,207.

NCDOT October 2017 Board of Transportation Agenda
Approval of Municipal Street System Changes

There will be no municipal street system changes presented for approval at the October 2017 Board meeting.

NCDOT October 2017 Board of Transportation Agenda

<u>No.</u>		<u>Enacted Page No.</u>
1	Preliminary Right of Way Plans	R-1 & R-2
2	Final Right of Way Plans	R-3 & R-4
3	Revisions of Final Right of Way Plans	R-5 & R-6
4	Approval of Conveyance of Highway Right of Way Residues	R-7
5	Approval of Conveyance of Surplus Highway Right of Way	R-8
6	Approval of Revision in Control of Access	R-9
7	Approval of Conveyance of Wetland Mitigation Site	R-10
8	Approval of Conveyance of Departmental Real Property	R-11
9	Advance Acquisition of Highway Right of Way	R-12

Preliminary Right of Way Plans

The Preliminary Right of Way Plans for the below projects, including Secondary Roads and Industrial Access Roads, provide for the construction, design, drainage and control of access as shown on the respective plans.

Based upon the recommendations of the Manager of the Right of Way Unit, the Board finds that such rights of way as shown on these preliminary plans and drawings, including existing public dedicated right of way, are for a public use and are necessary for the construction of said projects.

The rights of way for the location, construction, relocation, and control of access of highways embraced in the below projects shall be as shown in detail on the preliminary right of ways plans and drawings for said projects on file in the Right of Way Branch in the Department of Transportation in Raleigh.

The Board finds such right of way acquisition to be necessary and hereby authorizes the Right of Way Branch to acquire right of way on the below projects either by negotiation or by condemnation through the Attorney General's Office.

(Division 1)

Dare County; I.D. No. R-5014; Project No. 41162.2.1:
SR 1217 (Collington Road) from Dead End to US 158 (Croatan Highway) in Kill Devil Hills

(Division 4)

Johnston County; I.D. No. W-5600; Project No. 50056.2.1:
US 70 Business to Neuse River Bridge, convert to freeway with interchanges at SR 1500 (Swift Creek Road) and SR 1919 (Wilson's Mills Road)

(Division 5)

Wake County; I.D. No. B-5140; Project No. 42301.2.1:
Bridge No. 195 over Mocassin Creek on SR 1001

(Division 6)

Cumberland County; I.D. No. W-5601FN; Project No. 50138.2.171:
SR 1108 (Lakewood Drive) at Middleton Court and Lullwater Drive

Robeson County; I.D. No. B-5693; Project No. 45647.2.1:
Bridge No. 59 over Big Marsh Swamp on SR 1924 (Currie Road)

Preliminary Right of Way Plans (continued)

(Division 7)

Rockingham County; I.D. No. B-5715; Project No. 45671.2.1:
Bridge No. 17 over Haw River on SR 2351 (Witty Road)

Alamance County; I.D. No. U-3109B; Project No. 34900.2.3:
NC 119 relocation from North of US 70 to South of SR 1918 (Mrs. White Road)

(Division 9)

Forsyth County; I.D. No. B-5771; Project No. 45727.2.1:
Bridge No. 16 over Muddy Creek on Bethania on SR 1611 (Main Street)

Forsyth County; I.D. No. R-2247EC; Project No. 34409.2.26:
Reconstruct interchange, US 52/Future I-74 interchange with NC 65 on Winston-Salem Northern Beltway

(Division 12)

Iredell County; I.D. No. I-5717; Project No. 50134.2.1:
I-77 and the NC 150 interchange

Iredell County; I.D. No. R-2307B; Project No. 37944.2.4:
NC 150 from SR 1902 (Harvel Road) in Catawba County to I-77 in Iredell County (37944.2.5)

Cleveland County; I.D. No. W-5712A; Project No. 44858.2.1:
NC 180 (S. Post Road) at SR 2202 (Beam Road / Joe's Lake Road)

(Division 13)

Buncombe County; I.D. No. W-5713L; Project No. 44861.2.12:
NC 191 (Brevard Road) at NC 146 (Long Shoals Road)

Final Right of Way Plans

Right of way acquisition in accordance with the preliminary right of way plans on file in the Right of Way Unit has been determined to be necessary for public use and was authorized by the Board. Certain changes in the right of way have necessitated alteration of the preliminary right of way plans. Final plans have been prepared and provide for the construction, design, drainage and control of access for these projects. The Board finds that such rights of way and control of access as shown on the final plans are for a public use and are necessary for construction. The sections of roads which were shown on the preliminary plans as sections of roads to be abandoned are hereby abandoned and removed from the State Highway System for Maintenance upon the completion and acceptance of the project.

The rights of way for the location, design and construction of highways embraced in the following projects shall be as shown in detail on the final plans for said projects as follows:

(Division 3)**Project No. 40191.2.1; New Hanover County; I.D. No. U-4751:**

Grading, drainage, paving, structures, culverts, retaining walls, signals, noise walls and signing on SR 1409 (Military Cutoff Road Extension) from SR 1409 (Military Cutoff Road) to US 17 in Wilmington with the right of way indicated upon the final plans for said project.

(Division 4)**Project No. 39930.2.2; Edgecombe County; I.D. No. U-4762:**

Grading, drainage, paving, widening and signals on SR 1250 (Springfield Road) from US 64 Alternate to SR 1243 ((Leggett Road) with the right of way indicated upon the final plans for said project.

(Division 5)**Project No. 44401.2.1; Wake County; I.D. No. U-5828:**

Grading, drainage, paving and signals on McCrimmon Parkway, from SR 3015 (Airport Boulevard) to SR 1002 (Aviation Parkway) in Morrisville with the right of way indicated upon the final plans for said project.

(Division 6)**Project No. 53088.2.1; Robeson County; I.D. No. R-5752:**

Drainage, paving, grading and structure on US 74 at SR 2220 (Broad Bridge Road) convert at grade intersection to interchange and SR 2225 (Greek Road) convert at grade intersection to directional crossover with the right of way indicated upon the final plans for said project.

Final Right of Way Plans (continued)

(Division 8)

Project No. 46077.2.1; Montgomery/Moore Counties; I.D. No. B-5362:

Grading, drainage, paving and structure on Bridge No. 53 over Drowning Creek on NC 73 with the right of way indicated upon the final plans for said project.

(Division 9)

Project No. 34839.2.GV18; Forsyth County; I.D. No. U-2579C:

ITS, grading drainage, paving, signing, signals, culverts and structures on Winston-Salem Northern Beltway (Eastern Section) from US 311 to US 158 with the right of way indicated upon the final plans for said project.

Revisions of the Final Right of Way Plans

Right of way acquisition in accordance with the final right of way plans for the following projects has been determined to be necessary and authorized by the Board. Plans are on file at the Office of the Secretary to the Board of Transportation as an addendum to the minutes of the meetings hereinafter indicated.

Certain changes in right of way, construction and drainage easements, and control of access have been necessitated by alterations in the construction plans of these projects. Amended plan sheets for these projects have been prepared which provide for changes of certain right of way areas, construction and drainage easements and control of access.

The Board finds that the revised areas of right of way, construction and drainage easements and control of access, as shown on the amended plan sheets hereinafter set out, are for a public purpose and are necessary for the construction of projects.

The right of way, construction and drainage easements and control of access are hereby revised as shown on the plan sheets incorporated herein as an addendum, said projects, date of original final approval, and revised right of way, easements and access being as follows:

(Division 6)**Project No. 36492.2.2; I.D. No. U-4444B; Cumberland County:**

Final Right of Way plans approved on the minutes of the November 8, 2012 Board of Transportation Meeting. Revised additional right of way, easements or control of access shown on plan sheet(s) 9A as presented at the October 5, 2017 Board of Transportation Meeting.

(Division 7)**Project No. 34820.2.19; I.D. No. U-2524D; Guilford County:**

Final Right of Way plans approved on the minutes of the September 8, 2016 Board of Transportation Meeting. Revised additional right of way, easements or control of access shown on plan sheet(s) 7, 9 & 10 as presented at the October 5, 2017 Board of Transportation Meeting.

(Division 12)**Project No. 34522.2.FR6; I.D. No. R-3100A; Catawba County:**

Final Right of Way plans approved on the minutes of the April 6, 2017 Board of Transportation Meeting. Revised additional right of way, easements or control of access shown on plan sheet(s) 10 as presented at the October 5, 2017 Board of Transportation Meeting.

Revisions of the Final Right of Way Plans

(Division 12) (continued)

Project No. 34497.2.FS9; I.D. No. R-2707C; Cleveland County:

Final Right of Way plans approved on the minutes of the May 4, 2017 Board of Transportation Meeting. Revised additional right of way, easements or control of access shown on plan sheet(s) 22, 35, 36, 37 and 38 as presented at the October 5, 2017 Board of Transportation Meeting.

REVISION FINAL ROW PLANS

4 PROJECT(S)

\$0.00

Approval of conveyance of Highway Right of Way Residues

It is hereby resolved, based upon the recommendation of the Manager of the Right of Way Unit, that the following highway right of way conveyances are approved:

(Division 9)

**Project 8.1631507, Parcels I-2511CA 067, 070, 072, 073, 074, 075, Innes Street
Rowan County**

Conveyance of an approximate 2.150-acre residue area to JWJW Investments, LLC, the highest bidder after public advertisement, for the high bid amount of \$175,000.00.

(Division 10)

**Project 34410.2.25, Parcel R-2248E 001, I-485 (Charlotte Outer Loop) from East of
NC 115 (Old Statesville Road) to I-85 North
Mecklenburg County**

Conveyance of an approximate 14.180-acre residue area to JWJW Investments, LLC, the highest bidder after public advertisement, for the high bid amount \$71,000.00.

CONVEYANCE ROW RESIDUE

2 PROJECT(S)

\$246,000.00

Approval of conveyance of Surplus Highway Right of Way

It is hereby resolved, based upon the recommendation of the Manager of the Right of Way Unit that the following highway right of way conveyances are approved:

(Division 5)

Project 8.1433202, Intersection of NC 56 and West Lyon Road

Granville County

Conveyance of an approximate 0.383-acre surplus right of way area to the Town of Butner for no monetary consideration.

(Division 9)

Project 8.1901403, SR 4609 (Whitt Station Lane) at SR 4610 (Macy Station Drive)

Forsyth County

Conveyance of an approximate 0.220-acre surplus right of way area to Robins Rental, LLC for the enhancement value of \$19,175.00.

(Division 14)

Project 8.18362, SR 1829 (Kay Road) near SR 1906 (Reed Drive) in Flat Rock

Henderson County

Abandonment of an approximate 0.161-acre permanent easement to Joseph C. Basile and Verena B. Johnson as unmarried joint tenants with rights of survivorship, for no monetary consideration.

Project 8.3019124, Parcel A-0006D 025, US 19/74 near SR 1392 (Byrd Road) in

Bryson City

Swain County

Conveyance of an approximate 0.082-acre surplus right of way area to Russell Briggs for no monetary consideration.

Approval of Revision in Control of Access

It is hereby resolved, based upon the recommendation of the Manager of the Right of Way Unit that the following highway right of way conveyances are approved:

(Division 5)

Project 8.1402601, Parcels R-2541 047, 048, 049, 050, 062, 086 Wake County
Grant of a revision in the existing control of access to the Town of Holly Springs for an approximate 50 meter (164 foot) break along NC 55 Bypass near Bennet Knoll Parkway in Holly Springs for monetary consideration.

Approval of Conveyance of Wetland Mitigation Site

It is hereby resolved, based upon the recommendation of the Manager of the Right of Way Unit that the following highway right of way conveyances are approved:

(Division 8)

**Drowning Creek and Sullivan Mitigation Sites
Scotland County**

The Department received a request for the disposal of a mitigation site of approximately 194 acres. The NC Wildlife Resources Commission (NCWRC) has requested that the Department transfer this property to them for game land use. The NC Wildlife Resources Commission has agreed to this conveyance for no monetary consideration.

Approval of Conveyance of Departmental Real Property

It is hereby resolved, based upon the recommendation of the Manager of the Right of Way Unit that the following highway conveyances are approved:

(Division 13)

**1.864 Acre Prices Creek Township Deed Book 75 Page 119 Yancey County Registry
Yancey County**

The Department received a request from NC Wildlife Resources Commission (NCWRC) for the conveyance of a 1.864 acre area adjacent to Division 13 Maintenance Yard. NCWRC has requested this property for the construction of a new Depot to replace the existing one that needs to be replaced. The Department has agreed to convey the property to NCWRC for no monetary consideration in accordance with the assistance received from NCWRC in the settlement of several Right of Way Claims across the State and with approval of Division Engineer.

Advance Acquisition of Highway Right of Way

Upon recommendation of the Manager of the Right of Way Branch, the Board has been requested to authorize the acquisition of the following properties through negotiation or condemnation for purposes of highway construction in order to prevent undue hardship on property owners or to protect the right of way corridor from development prior to regular project approval. The Board finds such acquisitions to be necessary, and hereby authorizes the Right of Way Branch to acquire said properties either by negotiation or by condemnation through the Office of the Attorney General.

(Division 5)

**Property of Brenda Perry
I.D. No. R-2721, Parcel #901
WBS 37673.2.1, F. A. Project N/A,
County of Wake**

(Division 9)

**Property of Brian M. & Amber Idol
I.D. No. U-2579AB, Parcel #924,
WBS 34839.1.8, F. A. Project N/A,
County of Forsyth**

APPROVAL OF ADVANCE ACQUISITION FOR HIGHWAY RIGHT OF WAY 2 PROJECT(S) \$0.00

R-ITEM SUMMARY 34 PROJECT(S) TOTAL: \$ 265,175.00

**NORTH CAROLINA BOARD OF TRANSPORTATION
RECOMMENDED ALLOCATION OF HIGHWAY MAINTENANCE APPROPRIATIONS
FISCAL YEAR 2017 - 2018**

There will be no Maintenance Allocation submitted to the Board for approval at the October 2017 Board meeting.

September 21, 2017

MEMORANDUM TO: Board of Transportation
FROM: Transportation Planning Branch
SUBJECT: Submission of the Caswell County Comprehensive Transportation Plan for Mutual Adoption by the Board of Transportation

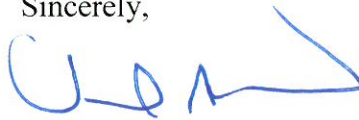
The Transportation Planning Branch has worked cooperatively with Caswell County on the development of a Comprehensive Transportation Plan (CTP). The plan was adopted by Caswell County on May 1, 2017, the Town of Milton on May 9, 2017, and the Town of Yanceyville on May 9, 2017. It was endorsed by the Piedmont Triad RPO on June 21, 2017.

The plan is based on an analysis of existing and projected travel and land use, public involvement and field investigations of recommended improvements. It is located on the web at:

[https://connect.ncdot.gov/projects/planning/Pages/CTP-Details.aspx?study_id=Caswell County](https://connect.ncdot.gov/projects/planning/Pages/CTP-Details.aspx?study_id=Caswell%20County)

The Transportation Planning Branch recommends the mutual adoption of the Caswell County Comprehensive Transportation Plan as shown on the attached map, with a recommendation date of August 23, 2017.

Sincerely,



Jamal Alavi, P.E.
Manager, Transportation Planning Branch

Attachment

October 5, 2017

VIRGINIA

Adopted by:

Caswell County
Date: May 1, 2017

Town of Milton
Date: May 9, 2017

Town of Yanceyville
Date: May 9, 2017

NCDOT
Date:

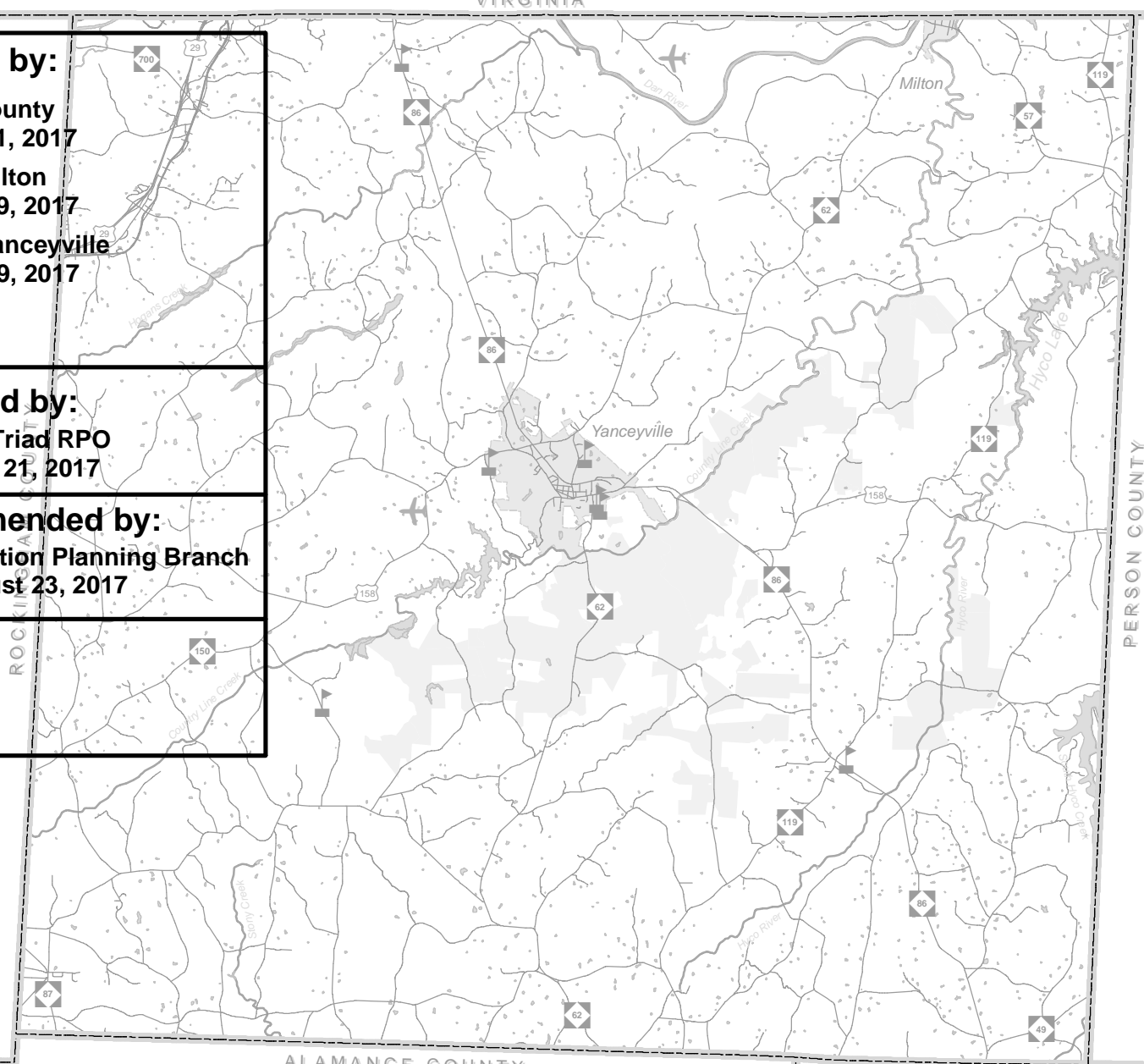
Endorsed by:

Piedmont Triad RPO
Date: June 21, 2017

Recommended by:

Transportation Planning Branch
Date: August 23, 2017

NOTES:



Caswell County

North Carolina

RECOMMENDED

**Comprehensive
Transportation Plan**

Plan date: July 13, 2017

Sheet 1 **Adoption Sheet**

Sheet 2 **Highway Map**

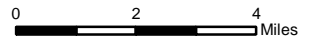
Sheet 3 **Public Transportation
and Rail Map**

Sheet 4 **Bicycle Map**

Sheet 5 **Pedestrian Map**

Legend

- Schools
- Roads
- Railroads
- Rivers and Streams
- Water bodies
- Municipal Boundary
- County Boundary
- Game Lands



Sheet 1 of 5



Base map date: January 14, 2016
Refer to CTP document for more details

ROCKINGHAM COUNTY

PERSON COUNTY

GUILFORD COUNTY

ALAMANCE COUNTY

ORANGE COUNTY

September 21, 2017

MEMORANDUM TO: Board of Transportation

FROM: Transportation Planning Branch

SUBJECT: Submission of the Jackson County Comprehensive Transportation Plan for Mutual Adoption by the Board of Transportation

The Transportation Planning Branch has worked cooperatively with Jackson County on the development of a Comprehensive Transportation Plan (CTP). The plan was adopted by Jackson County on August 28, 2017, the Town of Sylva on July 13, 2017, the Town of Webster on August 2, 2017, the Village of Forest Hills on July 11, 2017, and the Town of Dillsboro on July 10, 2017. It was endorsed by the Southwestern RPO on June 21, 2017.

The plan is based on an analysis of existing and projected travel and land use, public involvement and field investigations of recommended improvements. It is located on the web at:

[https://connect.ncdot.gov/projects/planning/Pages/CTP-Details.aspx?study_id=Jackson County](https://connect.ncdot.gov/projects/planning/Pages/CTP-Details.aspx?study_id=Jackson%20County)

The Transportation Planning Branch recommends the mutual adoption of the Jackson County Comprehensive Transportation Plan as shown on the attached map, with a recommendation date of September 26, 2017.

Sincerely,



Jamal Alavi, P.E.
Manager, Transportation Planning Branch

Attachment

October 5, 2017

Swain County

Haywood County

Eastern Band of Cherokee Indians

Adopted by:

Jackson County
Date: August 28, 2017

Town of Sylva
Date: July 13, 2017

Town of Webster
Date: August 2, 2017

Town of Forest Hills
Date: July 11, 2017

Town of Dillsboro
Date: July 10, 2017

NCDOT
Date:

Endorsed by:

Southwestern RPO
Date: September 25, 2017

Recommended by:

Transportation Planning Branch
Date: September 26, 2017

Macon County

Transylvania County

Georgia

South Carolina

Sheet 1 Adoption Sheet











Sheet 2 Highway Map

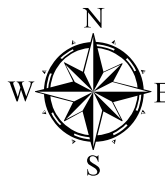
Sheet 3 Public Transportation and Rail Map

Sheet 4 Bicycle Map

Sheet 5 Pedestrian Map

Legend

-  Airports
-  Schools
-  Roads
-  Railroads
-  Rivers and Streams
-  Bodies of Water
-  Public Lands
-  County Boundary
-  Municipal Boundary
-  Eastern Band of Cherokee Indians



0 1 2 4 Miles

Sheet 1 of 5

Base map date: 11-04-2014

Refer to CTP document for more details

Adoption Map

RECOMMENDED

Jackson County

**Comprehensive
Transportation Plan**

Plan date: June 8, 2017

NORTH CAROLINA BOARD OF TRANSPORTATION

ITEM V

There will be no Item V submitted to the Board for approval at the October 2017 Board meeting.

RESOLUTION FOR DR. JOHN HOPE FRANKLIN

WHEREAS, Dr. John Hope Franklin was born on January 2, 1915 to attorney Buck (Charles) Colbert Franklin and Mollie (Parker) Franklin in Rentiesville, Oklahoma; and

WHEREAS, Dr. Franklin graduated from Booker T. Washington High School in Tulsa, Oklahoma and subsequently from Fisk University, a historically black university in Nashville, Tennessee in 1935. Dr. Franklin earned a Master's Degree in 1936 and a Doctorate in History in 1941 from Harvard University; and

WHEREAS, Dr. Franklin's career includes working alongside Thurgood Marshall and the NAACP Legal Defense Fund that led to the United States Supreme Court ruling in 1954 that the legal segregation of black and white children in public schools was unconstitutional, leading to integration of schools; and

WHEREAS, Dr. Franklin's teaching career began at Fisk University and he went on to teach at St. Augustine's College, the North Carolina College for Negroes, now North Carolina Central University, Howard University, Brooklyn College, University of Chicago and the University of Cambridge; and

WHEREAS, Dr. Franklin was appointed as the James B. Duke Professor of History at Duke University in 1983. In 1985, he took emeritus status from this position. During this same year, he helped to establish the Durham Literacy Center and served on its Board until 2009. Dr. Franklin was also Professor of Legal History at Duke University Law School from 1985 to 1992; and

WHEREAS, Dr. Franklin was a member of the Phi Beta Kappa Society, Alpha Phi Alpha Fraternity, the Organization of American Historians, the American Historical Association and the Southern Historical Association; and

WHEREAS, the John Hope Franklin Research Center for African and African American History and Culture resides at Duke University's David M. Rubenstein Rare Book and Manuscript Library and contains his personal and professional papers. The other academic units named after Dr. Franklin at Duke University are the John Hope Franklin Center for Interdisciplinary and International Studies and the Franklin Humanities Institute; and

WHEREAS, Dr. Franklin was awarded the Presidential Medal of Freedom, the nation's highest civilian honor and the Order of the Long Leaf Pine, the state's highest honor awarded to persons for exemplary service to the State of North Carolina and the local community; and

WHEREAS, former United States Transportation Secretary Anthony R. Foxx requested the designation of the Dr. John H. Franklin Highway; and

WHEREAS, the Durham City Council requested to designate a portion of Interstate 85, from Cole Mill Road to U.S. 70 Bypass as the Dr. John H. Franklin Highway.

NOW, THEREFORE, BE IT RESOLVED:

That the North Carolina Board of Transportation names a portion of Interstate 85, from Cole Mill Road to U.S. 70 Bypass as the *Dr. John H. Franklin Highway*.

That appropriate signs will be erected at a suitable time.

Adopted this the 5th day of October 2017 by the North Carolina Board of Transportation.


Chairman


Secretary of Transportation

RESOLUTION FOR RICHARD SHELTRA

WHEREAS, Richard Sheltra served the Pineville Volunteer Fire Department for three years in Pineville, NC with diligence, dedication and honor; and

WHEREAS, Sheltra was killed in the line of duty from smoke inhalation while actively fighting a three-alarm fire at a retail golf shop located on Pineville-Matthews Road in Mecklenburg County on April 30, 2016; and

WHEREAS, Sheltra was just 20 years old at the time of his death and had just been named "Rookie of the Year" in 2015; and

WHEREAS, during his three years as a volunteer firefighter at the Pineville Volunteer Fire Department, he touched the lives of many through his strong community involvement, dedication to his work and desire to help others; and

WHEREAS, even as a young boy, his passion for helping others quickly made it clear he was destined for a career in public service; and

WHEREAS, as he grew into a young man he was drawn to the brotherhood of firefighters which was a reflection of his own strong sense of family; and

WHEREAS, Sheltra was the first loss of a volunteer firefighter in Mecklenburg County since 2002 and is survived by his mother, father and sister; and

WHEREAS, the actions of this young hero, his dedication to his work and his passion to help others are all fitting reasons for the request to memorialize him; and

WHEREAS, the Pineville Town Council fully supports this effort and respectfully requested that the North Carolina Board of Transportation strongly consider naming the bridge over Little Sugar Creek on South Polk Street in Pineville in the memory and honor of fallen Volunteer Firefighter Richard Sheltra.

NOW, THEREFORE, BE IT RESOLVED:

That the North Carolina Board of Transportation names the bridge over Little Sugar Creek on South Polk Street in Pineville as the *Richard Sheltra Bridge*.

That appropriate signs will be erected at a suitable time.

Adopted this the 5th day of October 2017 by the North Carolina Board of Transportation.


Chairman


Secretary of Transportation



NORTH CAROLINA

Department of Transportation



Financial Update

As of August 2017

David Tyeryar, Chief Financial Officer

October 4, 2017

Financial Update

SFYTD 2018 as compared SFYTD 2017

Dollars in Millions	Month over Month		Year to Date		
	August '17	August '16	August '17	August '16	\$ Change
Collections	\$ 502	\$ 507	\$ 914	\$ 915	\$ (1)
Expenditures	<u>486</u>	<u>462</u>	<u>871</u>	<u>852</u>	<u>19</u>
Net Change	\$ 16	\$ 45	\$ 43	\$ 63	\$ (20)
Cash Balances:			<u>August '17</u>	<u>August '16</u>	
Trust Fund			\$ 1,753	\$ 1,405	
Highway Fund*			<u>364</u>	<u>284</u>	
Totals			<u>\$ 2,117</u>	<u>\$ 1,689</u>	

*Excludes bond proceeds held by Trustee & GARVEE Debt Service Reserve

Revenue Summary August 2017

(\$ in Millions)

	August 2017	August 2016	Year Over Year				SFY Budget	
			2017-2018 Actual	2016-2017 Actual	\$	%	Annual Budget	%
State & Federal Collections:								
Highway Fund *	\$ 179.5	\$ 183.9	\$ 361.1	\$ 362.2	\$ (1.2)	0%	2,191.0	16%
Highway Trust Fund *	136.1	132.8	257.9	252.2	5.7	2%	1,547.1	17%
Total State Funds	315.6	316.7	619.0	614.4	4.5	1%	\$ 3,738.1	17%
Federal Funds/Participation **	152.0	131.3	226.0	210.6	15.4	7%	1,044.9	22%
GARVEE Reimbursement/NCTA	33.9	58.7	68.5	90.3	(21.8)	-	N/A	N/A
Total	\$ 501.5	\$ 506.7	\$ 913.5	\$ 915.3	\$ (1.8)	0%	\$ 4,783.0	19%
* Memo								
	August 2017	August 2016	Year Over Year				SFY Budget	
			2017-2018 Actual	2016-2017 Actual	\$	%	Annual Budget	%
Highway Fund & Trust Fund Details								
Motor Fuel Taxes	\$ 160.7	\$ 156.6	\$ 328.2	\$ 323.7	\$ 4.6	1%	\$ 1,961.8	17%
Highway Use Tax	73.7	72.2	135.6	131.7	3.9	3%	820.8	17%
DMV/Other Revenue	78.9	86.2	152.8	157.5	(4.7)	-3%	939.8	16%
Investment Income	2.3	1.6	2.3	1.6	0.7		15.6	N/A
Total	\$ 315.6	\$ 316.7	\$ 619.0	\$ 614.4	\$ 4.5	1%	\$ 3,738.1	17%

**Estimated Federal Revenue including the FAST ACT is \$1,160 million

Expenditure Summary August 2017

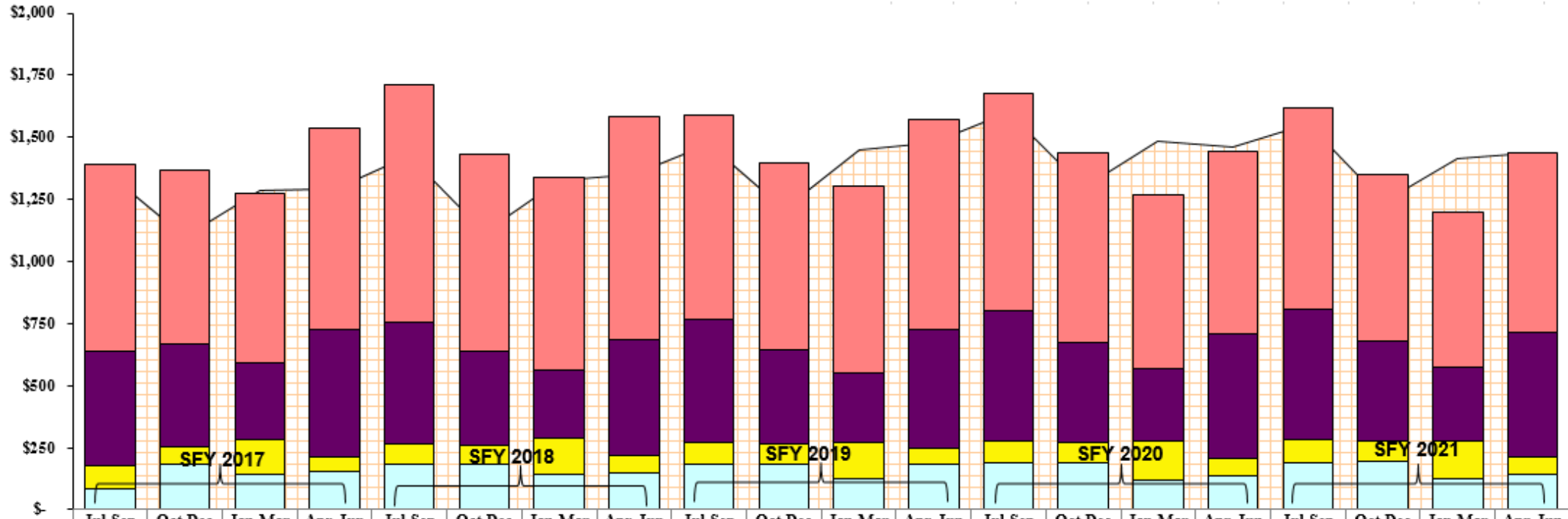
(\$ in millions)

			Year Over Year				SFY Annual Budget	
	August-17	August-16	2017-2018 Actual	2016-2017 Actual	\$	%	2017-2018 Budget	%
State & Federal Funded Programs:								
Construction	\$ 220.5	\$ 240.6	\$ 426.8	\$ 455.8	\$ (29.0)	-6%	\$ 2,319.7	18%
Maintenance	150.1	134.4	273.6	252.4	21.2	8%	1,353.5	20%
Public Transportation	5.5	8.3	23.4	12.8	10.6	83%	131.8	18%
Other Modal/Other Programs	11.8	12.0	26.8	25.6	1.3	5%	246.2	11%
Administration	19.8	23.1	(26.3)	(19.9)	(6.3)	NA	322.7	-8%
Municipal Aid	-	-	(0.1)	-	(0.1)	0%	147.5	0%
Transfers to Other Agencies	11.6	7.3	13.6	7.3	6.3	NA	61.0	22%
Total Expenditures	\$ 419.4	\$ 425.6	\$ 737.8	\$ 733.9	\$ 3.9	1%	\$ 4,582.4	16%
GARVEE/NCTA/Special Initiatives	\$ 66.4	\$ 36.8	\$ 133.5	\$ 118.2	\$ 15.3		200.6	
Total	\$ 485.7	\$ 462.4	\$ 871.4	\$ 852.1	\$ 19.3		4,783.0	

Revenue and Expenditure Variances as of August 2017

EXPENDITURES		
State & Federal Funded		
Programs:	Variance >5%	Reason for Variance
Other Modal/Other Programs	<6%>	Aviation expenditures are down due to scheduling the new funding provided for capital improvements at commercial airports.
Administration	<25%>	Admin is down due to the IT carryforward. FY17 IT carryforward was \$67.8M.

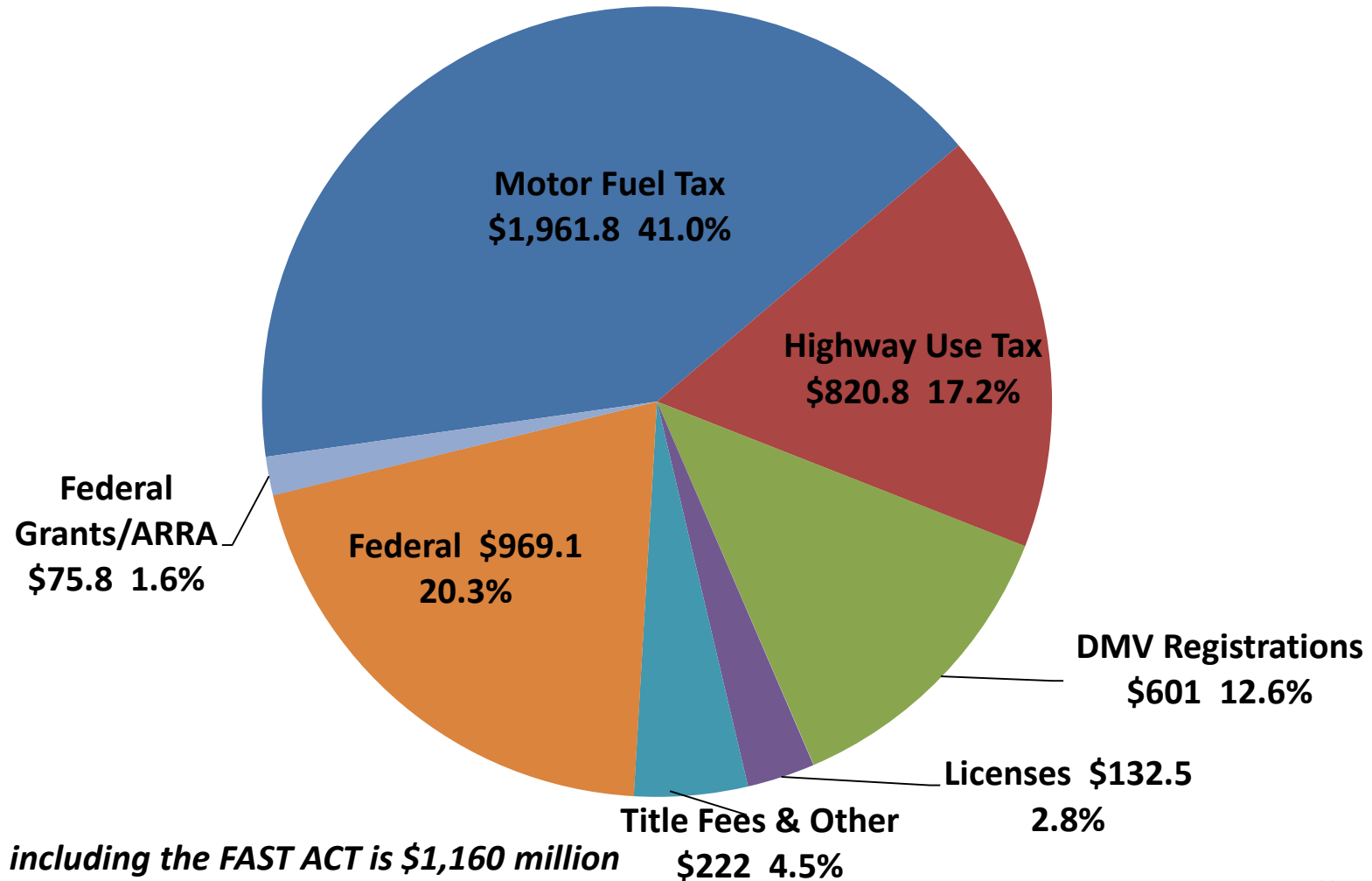
60 Month Revenue & Expenditure Projections as of August 2017



	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun
Revenues	\$1,347	\$1,096	\$1,285	\$1,293	\$1,423	\$1,119	\$1,324	\$1,348	\$1,475	\$1,210	\$1,448	\$1,481	\$1,598	\$1,300	\$1,481	\$1,459	\$1,552	\$1,239	\$1,416	\$1,438
Construction Expenditures	751	702	685	811	954	798	777	898	818	750	751	843	878	763	702	739	807	671	625	724
Maintenance Expenditures	461	411	306	513	491	375	275	469	500	382	280	478	521	398	292	498	527	403	295	504
Other Modes	91	71	139	61	84	78	145	65	85	79	147	67	89	82	153	69	90	83	154	70
Other Expenditures	86	184	144	152	181	183	143	151	183	186	125	183	189	191	121	139	192	193	123	140
Total Expenditures	1390	1367	1274	1537	1709	1433	1339	1584	1586	1396	1303	1571	1678	1435	1267	1445	1615	1351	1197	1438

NCDOT Revenue Sources SFY2018 - \$4.8 Billion

(Excludes Receipt Supported Funding of \$0.1B)

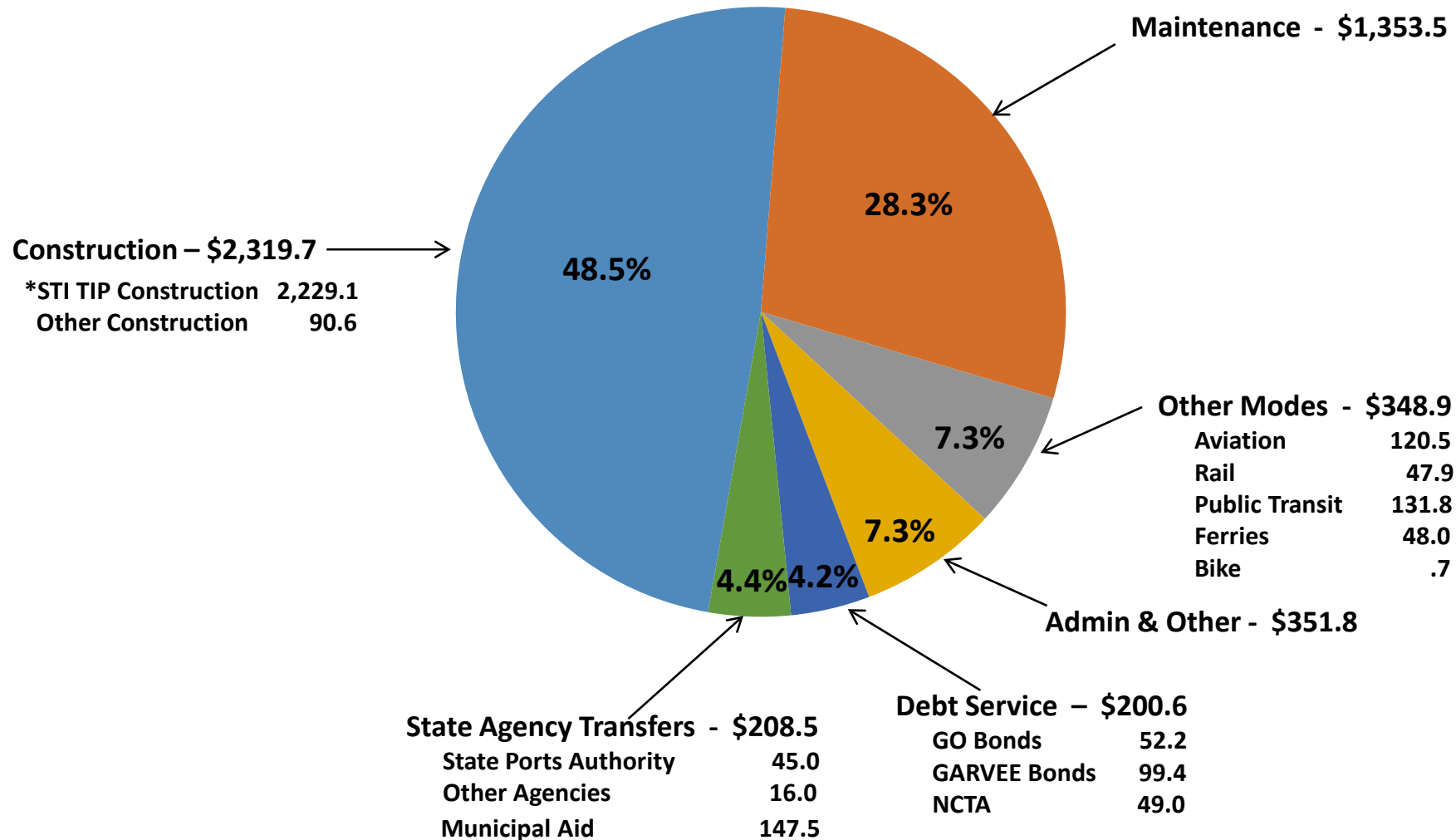


*Estimated Federal Revenue including the FAST ACT is \$1,160 million

Uses of 2017-18 NCDOT Appropriations

Total Funding = \$4.8 Billion

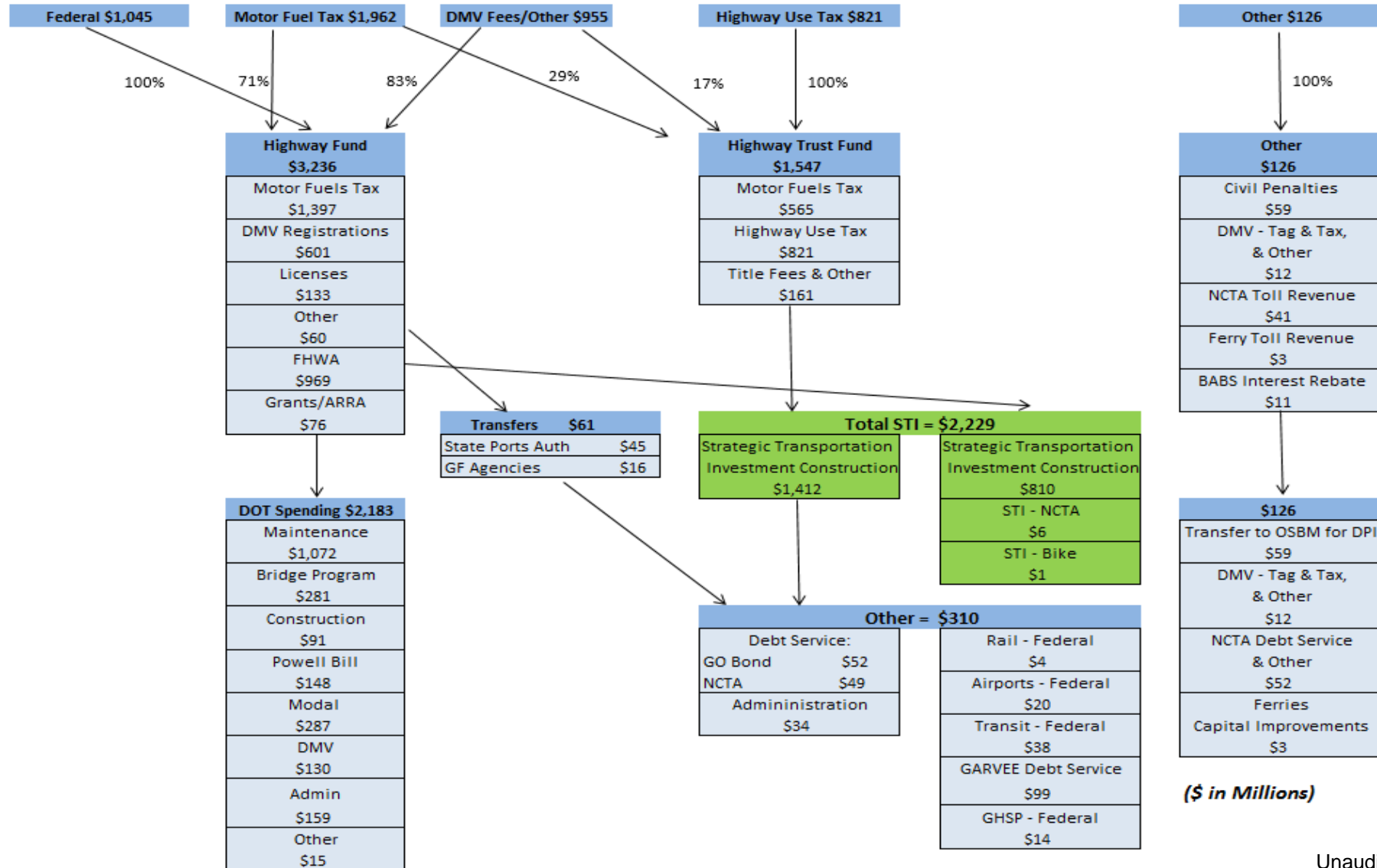
(Excludes Receipt Supported Funding of \$0.1B)



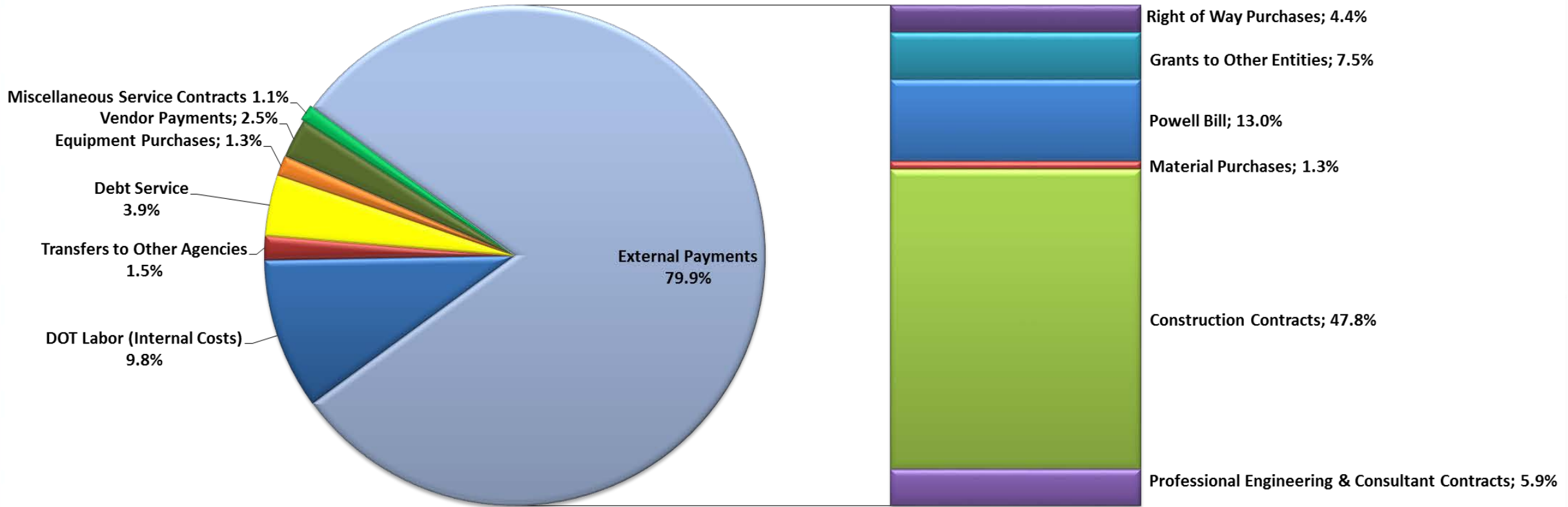
(\$ in millions)

SFY2018 NCDOT Sources and Uses

Total Funding = \$4.9 Billion



NCDOT Expenditures SFY2018 as of August 31, 2017



Committee Code	Committee	Last Name	First Name	Designation	Voting/Non Voting	E-mail
CAT	Council on Active Transportation	White	Julie	Member	Voting	juliewhite@ncdot.gov
		Johnson	Ed	Member	Non-voting	erjohnson2@ncdot.gov
		Collins	Debra	Member	Non-voting	dgcollins1@ncdot.gov
COA	Council on Aviation	Walston	Bobby	Member	Voting	bwalston@ncdot.gov
		Arnold	Jonothan	Member	Non-voting	jonarnold@ncdot.gov
		White	Julie	Member	Non-voting	juliewhite@ncdot.gov
CHS	Council on Highways and Streets	Little	Tim	Member	Voting	tmlittle@ncdot.gov
		Rouse	John	Member	Non-voting	jwrouse@ncdot.gov
		Mitchell	Louis	Member	Non-voting	lmitchell@ncdot.gov
CPT	Council on Public Transportation	Collins	Debra	Member	Voting	dgcollins1@ncdot.gov
		White	Julie	Member	Non-voting	juliewhite@ncdot.gov
COR	Council on Rail	Paul	Allan	Member	Voting	hapaul@ncdot.gov
		Pullen	Jahmal	Member	Non-voting	impullen@ncdot.gov
		White	Julie	Member	Non-voting	juliewhite@ncdot.gov
COW	Council on Water	Edwards	Charles	Member	Voting	chedwards1@ncdot.gov
		Cozza	Paul	Member	Non-voting	Paul.Cozza@ncports.com
		Baker	Sterling	Member	Non-voting	sbaker@ncdot.gov
SCF	Special Committee on Freight	Edwards	Charles	Member	Voting	chedwards1@ncdot.gov
		Arellano	Terry	Member	Non-voting	tarellano@ncdot.gov
CBS	Committee on Bridges and Structures	Hanks	Brian	Member	Voting	bhanks@ncdot.gov
		Muchane	Girchuru	Member	Non-voting	gmuchane@ncdot.gov
		Hidden	Scott	Member	Non-voting	shidden@ncdot.gov
COC	Committee on Construction	Sylvester	Lamar	Member	Voting	lsylvester@ncdot.gov
		Davenport	Ron	Member	Non-voting	rondavenport@ncdot.gov
COD	Committee on Design	Werner	Chris	Member	Voting	cmwerner@ncdot.gov
		Bruton	Theresa	Member	Non-voting	tbruton@ncdot.gov
		Moore	Brenda	Member	Non-voting	blmoore@ncdot.gov
CES	Committee on Environment and Sustainability	Harris	Philip	Member	Voting	pharris@ncdot.gov
		Shern	Jamie	Member	Non-voting	jfshern@ncdot.gov
		Lee	Don	Member	Non-voting	dlee@ncdot.gov
COC	Committee on Communications	Beaty	Greer	Member	Voting	gbeaty@ncdot.gov
		Meister	Nicole	Member	Non-voting	ndmeister@ncdot.gov
		Jones	Emily	Member	Non-voting	ejones@ncdot.gov

Committee Code	Committee	Last Name	First Name	Designation	Voting/Non Voting	E-mail
CFF	Committee on Funding and Finance	Lewis	Robert	Member	Voting	rwlewis1@ncdot.gov
		Tyeyer	David	Member	Non-voting	dyeryar1@ncdot.gov
		Argabright	Van	Member	Non-voting	vargabright@ncdot.gov
COM	Committee on Maintenance	Capps	Scott	Member	Voting	scapps@ncdot.gov
		Norman	Patrick	Member	Non-voting	pnorman@ncdot.gov
		Barnes	Kristin	Member	Non-voting	kwbarnes@ncdot.gov
CMP	Committee on Materials and Pavements	Peoples	Chris	Member	Voting	cpeoples@ncdot.gov
		Morrison	Clark	Member	Non-voting	cmorrison@ncdot.gov
CPBM	Committee on Performance-Based Management	Meister	Ehren	Member	Voting	emeister@ncdot.gov
		Tasaico	Burt	Member	Non-voting	htasaico@ncdot.gov
		Norman	Patrick	Member	Non-voting	pnorman@ncdot.gov
COP	Committee on Planning	Alavi	Jamal	Member	Voting	jalavi@ncdot.gov
		Thomas	Earlene	Member	Non-voting	ewthomas@ncdot.gov
CRUO	Committee on Right of Way, Utilities, and Outdoor Advertising Control	Grimes	Steve	Member	Voting	sgrimes@ncdot.gov
		Perfetti	Greg	Member	Non-voting	gperfetti@ncdot.gov
		McGraw	Emily	Member	Non-voting	emcgraw@ncdot.gov
COS	Committee on Safety	Mayhew	Brian	Member	Voting	bmayhew@ncdot.gov
		Lacy	Kevin	Member	Non-voting	jlacy1@ncdot.gov
		Troy	Shawn	Member	Non-voting	stroy@ncdot.gov
CTE	Committee on Traffic Engineering	Lacy	Kevin	Member	Voting	jlacy1@ncdot.gov
		Hummer	Joseph	Member	Non-voting	iehummer@ncdot.gov
CTSO	Committee on Transportation System Operations	Lacy	Kevin	Member	Voting	jlacy1@ncdot.gov
		McDiarmid	Meredith	Member	Non-voting	mmcdiarmid@ncdot.gov
CTSSR	Committee on Transportation System Security and Resilience	Lewis	Robert	Member	Voting	rwlewis1@ncdot.gov
		McGraw	Emily	Member	Non-voting	emcgraw@ncdot.gov
AAMC	Agency Administration Managing Committee	Howard	David	Member	Voting	dlhoward@ncdot.gov
		Scales	Shelby	Member	Non-voting	smscales@ncdot.gov
CCR	Committee on Civil Rights	Scales	Shelby	Member	Voting	smscales@ncdot.gov
		Eley	John	Member	Non-voting	jweley@ncdot.gov
		Austin	Alvin	Member	Non-voting	ajaustin1@ncdot.gov

Committee Code	Committee	Last Name	First Name	Designation	Voting/Non Voting	E-mail
CHR	Committee on Human Resources	Lasley	Anne	Member	Voting	alasley@ncdot.gov
		Olive	Amanda	Member	Non-voting	aolive@ncdot.gov
CIEA	Committee on Internal and External Audit	Morton	Mary	Member	Voting	mimorton1@ncdot.gov
		Rogers	Wayne	Member	Non-voting	wrogers1@ncdot.gov

AASHTO-AGC-ARTBA Joint Committee
Proposed Joint Position Statement PJPS-17AM-05
Title: The Highway Trust Fund and Federal Tax Legislation

WHEREAS, the Fixing America's Surface Transportation (FAST) Act of 2015 provided five years of stability in federal surface transportation investment, subject to timely enactment annual appropriations bills consistent with the FAST Act's investment levels; and

WHEREAS, the FAST Act did not address the long-term solvency of the federal Highway Trust Fund; and

WHEREAS, since 2008, Congress and previous administrations have shifted a total of \$143 billion from elsewhere in the federal budget to the Highway Trust Fund in order to avoid major cuts in highway and transit investment; and

WHEREAS, absent additional action by the president and Congress, the Highway Trust Fund will face annual revenue shortfalls of \$18 billion when the FAST Act expires on September 30, 2020, at the end of FY2020; and

WHEREAS, as the FAST Act's expiration approaches, it is likely that several state transportation agencies will begin delaying or cancelling projects because of the long-term uncertainty in federal funding, thereby lessening the associated transportation and economic benefits for their respective states; and

WHEREAS, at the same time, the House Appropriations for Transportation-Housing and Urban Development for fiscal year 2018 contains an \$800 million rescission of unobligated highway contract authority carried only by the state departments of transportation and the Senate appropriations bill does not include a comparable provision; and

WHEREAS, rescinding unobligated highway contract authority is a budgetary artifice that impedes the flexibility of state departments of transportation to meet their individual infrastructure needs, and disrupts transportation planning and timely delivery of projects; and

WHEREAS, these issues will be severely exacerbated and may result in real funding cuts when combined with the \$856 million rescission enacted in June 2017 based on fiscal year 2017 appropriations and the \$7.6 billion rescission scheduled for July 2020 under the FAST Act; and

WHEREAS, President Trump's administration and congressional leaders have publicly identified tax reform and infrastructure investment legislation as key priorities for enactment in coming months; and

WHEREAS, over the past 30 years, all revenue enhancements for the Highway Trust Fund have come through larger tax and deficit-reduction legislative packages; and

WHEREAS, 253 members of the U.S. House – representing a majority of members from each party – recently signed a letter to the leaders of the Ways & Means Committee urging them to include a permanent Highway Trust Fund solution in any tax reform legislation developed by the committee, an example of the broad bipartisan support for this approach in Congress; now, therefore, be it

RESOLVED, That the AASHTO-AGC-ARTBA Joint Committee and its component associations urge the Ways & Means Committee of the U.S. House of Representatives and Finance Committee of the U.S. Senate to include a permanent Highway Trust Fund solution and transportation infrastructure funding in forthcoming tax legislation, in order to address this issue as soon as possible; and be it further

RESOLVED, That the AASHTO-AGC-ARTBA Joint Committee and its component associations urge Congress to pass legislation including this provision and the president to sign it expeditiously; and be it further

RESOLVED, That the AASHTO-AGC-ARTBA Joint Committee and its component associations urge the Congressional authorizing and appropriations committees to consistently support federal investment in transportation by ceasing its reliance on highway contract authority rescissions as an off-set for unrelated programs.

AASHTO-AGC-ARTBA Joint Committee
Proposed Joint Position Statement PJPS-17AM-06
Title: Ensuring Strong and Dependable Federal Transportation Funding
that Builds upon Substantial State and Local Investment

WHEREAS, the United States Constitution deems investment in transportation infrastructure as one of the few core responsibilities of the federal government; and

WHEREAS, according to the US Department of Transportation's *2015 Conditions and Performance* report to Congress, state and local governments provided 80 percent of \$217 billion invested in highway and bridge programs and 74 percent of \$43 billion invested in transit programs compared to 20 percent and 26 percent, respectively, contributed by the federal government; and

WHEREAS, states continue to make significant commitments to invest in transportation infrastructure as evidenced by successful enactment of transportation revenue packages in 29 states since 2012, with other states examining similar measures; and

WHEREAS, at the same time, investment backlog for transportation infrastructure continues to increase, reaching \$836 billion for highways and bridges and \$122 billion for transit according to the US Department of Transportation, and the American Society of Civil Engineers has identified a \$1.1 trillion funding gap for surface transportation between 2016 and 2025; and

WHEREAS, as evidenced by these significant transportation infrastructure investment needs, further strengthening and reaffirmation of the federally-assisted, state-implemented foundation of the national program is even more critical now than in the past; now, therefore be it

RESOLVED, the AASHTO-AGC-ARTBA Joint Committee strongly disagrees with any notion that federal transportation funding displaces or discourages state and local investment; and be it further

RESOLVED, that the federal government must augment substantial state and local transportation investment by ensuring long-term, sustainable federal funding from the Highway Trust Fund, and provide robust direct funding to address highway and transit backlog as part of the major infrastructure package currently under consideration.



ECONOMIC DEVELOPMENT AND INTERGOVERNMENTAL RELATIONS MEETING MINUTES

DATE: 9/6/2017 TIME: 3:40 pm LOCATION: 150

MEETING CALLED BY	Chairwoman Valerie Jordan
BOARD ATTENDEES	Hugh Overholt , Andy Perkins, Cullie Tarleton, , John Pope, Daniel McComas, Billy Clarke, Gus Tulloss, Terry Hutchens

AGENDA TOPICS

1. MEETING CALL TO ORDER AND APPROVAL OF JUNE 28TH MINUTES – CHAIRWOMAN VALERIE JORDAN	
DISCUSSION SUMMARY	Chairwoman Jordan called the committee to order, presented roll call, and asked for a motion to approve the minutes as distributed.
ACTIONS TAKEN	A motion to approve the June 28 th 2017 EDIR committee meeting minutes as distributed was made by Ms. Jordan , motion moved by Daniel McComas and seconded by Cullie Tarleton. The committee approved unanimously.
2. INTRODUCTION OF NEW CIVIL RIGHTS DIRECTOR, SHELBY SCALES – CHIEF DEPUTY SECRETARY DAVID HOWARD	
DISCUSSION SUMMARY	Chief Deputy Howard introduced Shelby Scales as the new Civil Rights Director. Ms. Scales was formerly the President & CEO of the Airport Minority Advisory Council (AMAC) and brings her skills and knowledge to the DOT team.
ACTIONS TAKEN	No action taken.
3. OVERVIEW & DISADVANTAGED BUSINESS ENTERPRISE/ MEN BUSINESS ENTERPRISE/ WOMEN BUSINESS ENTERPRISE UPDATE DISCUSSION – SHELBY SCALES, CIVIL RIGHTS DIRECTOR	
DISCUSSION SUMMARY	Ms. Scales gave an update highlighting DBE metrics, HBCU metrics, On the Job training and other programming that her office manages. She explained the different certifications and how to get certified and the backlog of applications that her office has reduced from 60 to 34 currently. Currently, DBE, MBE, WBE are hard copy submittals and take at least 30 days to evaluate applications, which slows down the certification process. She explained being certified gives you services from OCR, and marketing from OCR directory. Certification is not qualification.
ACTIONS TAKEN	Valerie Jordan concluded that she will gather additional questions to continue the conversation and grow goals.
4. TRANSPORTATION ENGINEERING ASSOCIATES PROGRAM – CHANDRA CROSS TEA PROGRAM MANAGER	
DISCUSSION SUMMARY	Ms. Cross gave overview of the Transportation Engineering Associates (TEA) Program. She explained the programs vision and goals and their training program. She explained that there are 45 positions currently in the TEA program but it has been challenging to get participants due to reorganizations within the Department and outsourcing to engineering firms. Their recruiting efforts were at NC State NCAT, V Tech, and UNC Charlotte.
ACTIONS TAKEN	No action taken

Adjourned 5:00



ECONOMIC DEVELOPMENT AND INTERGOVERNMENTAL RELATIONS (EDIR) AGENDA

BOARD OF TRANSPORTATION OCTOBER 4, 2017

TIME: 3:40

LOCATION: Room 150

TOPIC	PRESENTER	TIME
Call to Order Roll Call Declaration of Quorum Approval of September 6, 2017 Meeting Minutes	Chair, Valerie Jordan	3:40-3:45
Introduction of panel discussion	Chief Deputy Secretary, David Howard	3:45-3:55
Panelist Presentation Utilizing our Infrastructure for Tourism and Economic Impact	Allen Thomas, Global Trans Park John Loyack, VP, Global Business Services William Miller, Deputy Secretary, NC Dept. of Commerce	3:55-4:35
Facilitated Discussion	Chair, Valerie Jordan Vice Chair, Hugh Overholt Chief Deputy Secretary, David Howard	4:35-4:50
Comments and Wrap up	Chair, Valerie Jordan	4:50-5:00
Adjourn	Chair, Valerie Jordan	5:00

NORTH CAROLINA GLOBAL TRANSPARK

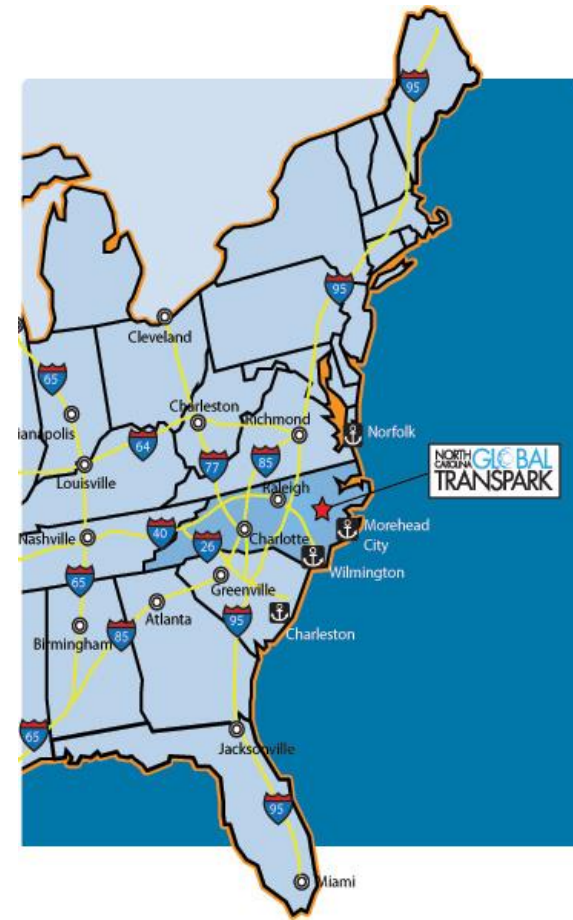


Allen M. Thomas
Executive Director
10/5/2017

NORTH CAROLINA GLOBAL TRANSPARK

Mission:

“To enhance the economic well-being of North Carolinians by providing multi-modal capabilities for global commerce.”



North Carolina Global TransPark (NC GTP)

- **2,500 Acre Business Industrial Park / Jetport located in eastern North Carolina. Lenoir County, 70 miles east of Raleigh.**
- **State of North Carolina Asset. Administered under the NC Department of Transportation.**
- **Multi-modal -- Offering unparalleled access to air cargo, rail, highways, trans-load, all on-site --as well as close access to deep-water ports.**
- **Foreign Trade Zone (#214), Environmental: pre-approved permitting for site development.**
- **1,450 employees, private/public sector. Avg. salary \$59,800. Spirit Aerosystems: 850 employees. Builds fuselage, AirBus A350.**

Through the Air

The NC GTP has a long association with air travel and continues to position itself as an outstanding point of origin and arrival for air freight of all types. *The Antonov An-124. 2nd largest cargo aircraft in the world. 93 flights to NC GTP.

- **Home of the Kinston Regional Jetport (ISO)**
- **Runway 11,500 feet* in length and 150 feet in width**
- **Land parcels with runway access**
- **Congestion-free departures and approaches**
- **FAA Part 139 Certified Airfield with a CAT I Instrument Landing System and AWOS III/p**

Travel Over Land

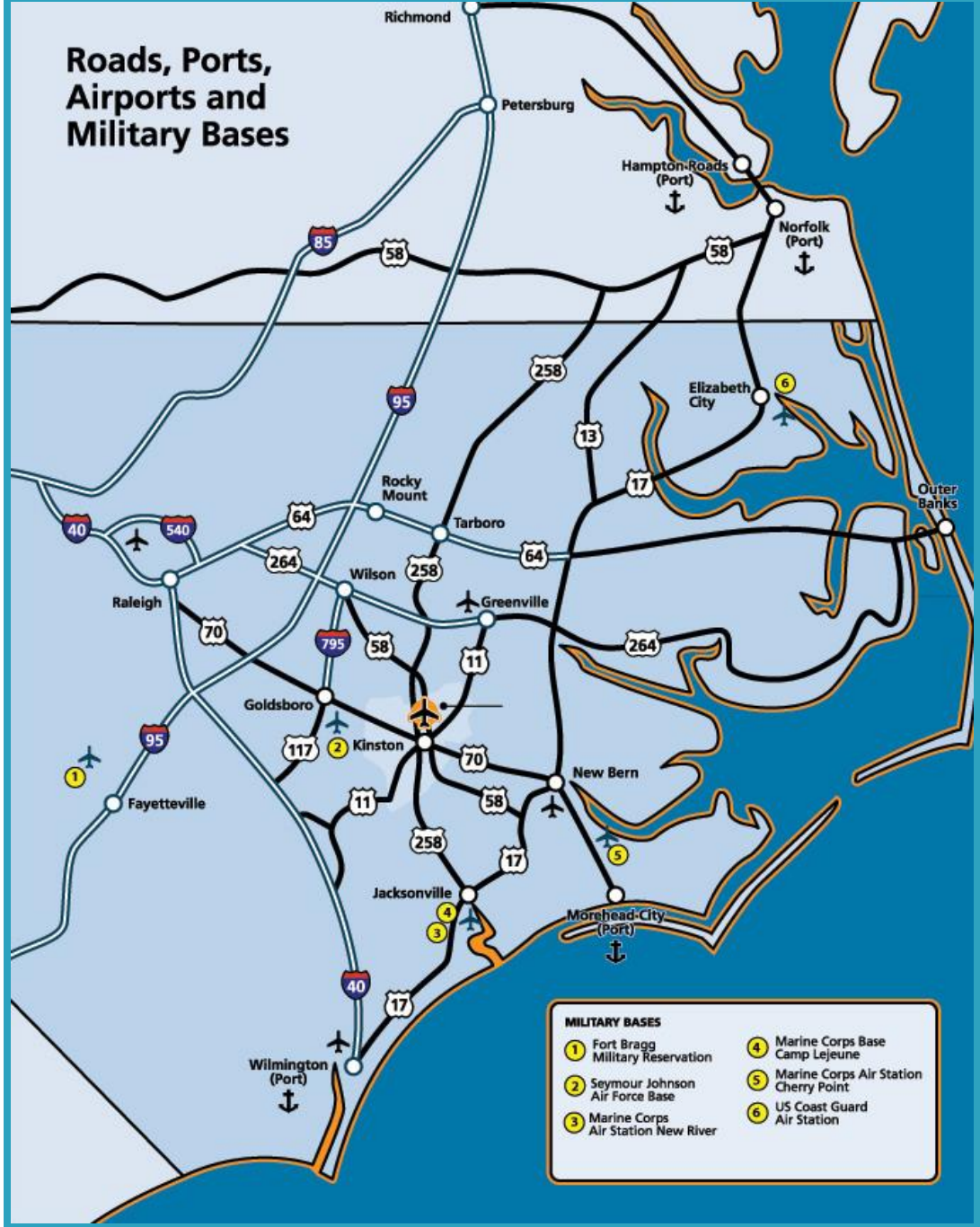
The NC GTP has been the beneficiary of steadily improving roadways in North Carolina, including local, state and federal investment. That improvement will continue in the future.

- **Nearby US 70 (Designated I-42) is a four-lane artery connecting Raleigh to the coast through Kinston. Future I-587, I-87 (to Norfolk) to north.**
- **Interstates 95 and 40 are within easy reach, allowing easy north-south and east-west travel**
- **The Felix Harvey Parkway high-speed, four-lane artery accessing the GTP**
- **Harvey Parkway from US 70 to NC 58 is open; section from NC 58 to NC 11 is under construction**
- **A spine road is planned to serve prospective tenants on the north side**

Movement By Sea

The NC Global TransPark is within 100 miles of North Carolina's two deep-sea ports and 150 miles of the Port of Norfolk, allowing the park to offer full transportation modality.

- **Ports of Morehead City and Wilmington within easy range**
- **Rail spur enhances seaborne access**
- **Foreign-Trade Zone in operation at both ports and the GTP**
- **Ports offer bulk cargo and container shipping**

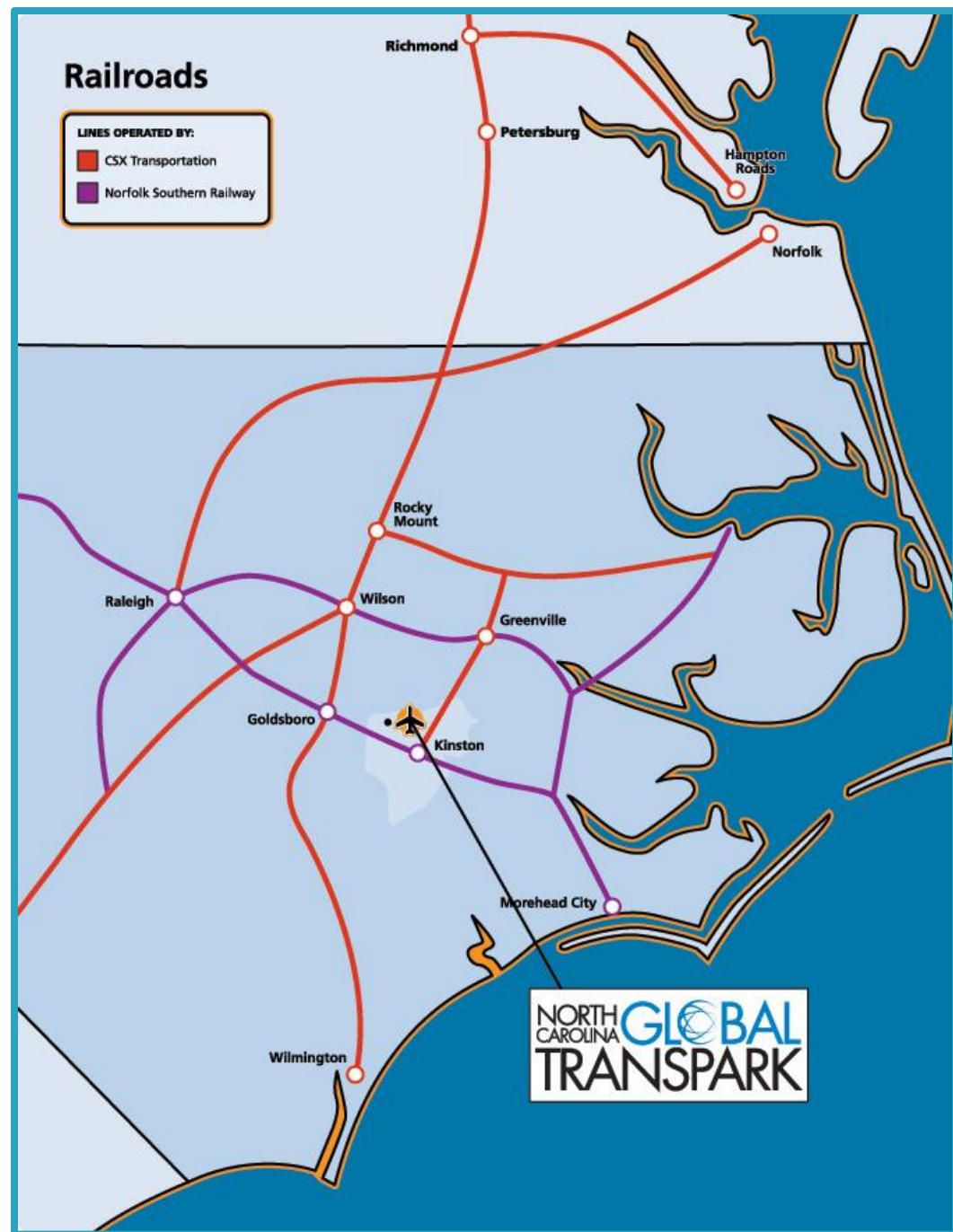


Riding the Rails

- ▶ **Bringing rail transportation into the GTP has been part of the Master Plan for many years. Now, rail with direct access to NC ports is at hand. The GTP's rail spur is in place and a short haul operator was established in 2015.**
- **The spur covers 5.8 miles, including a bridge and 10 crossings.**
- **Rail allows easy access to the deep-water, Port of Morehead City.**
- **Spur line allows future “trunks” to current and future GTP tenants as needed.**
- **Spur links up with existing NC Railroad Norfolk Southern track system.**
- **Spur alignment to allow expansion to north side of runway (CSX) as needed.**

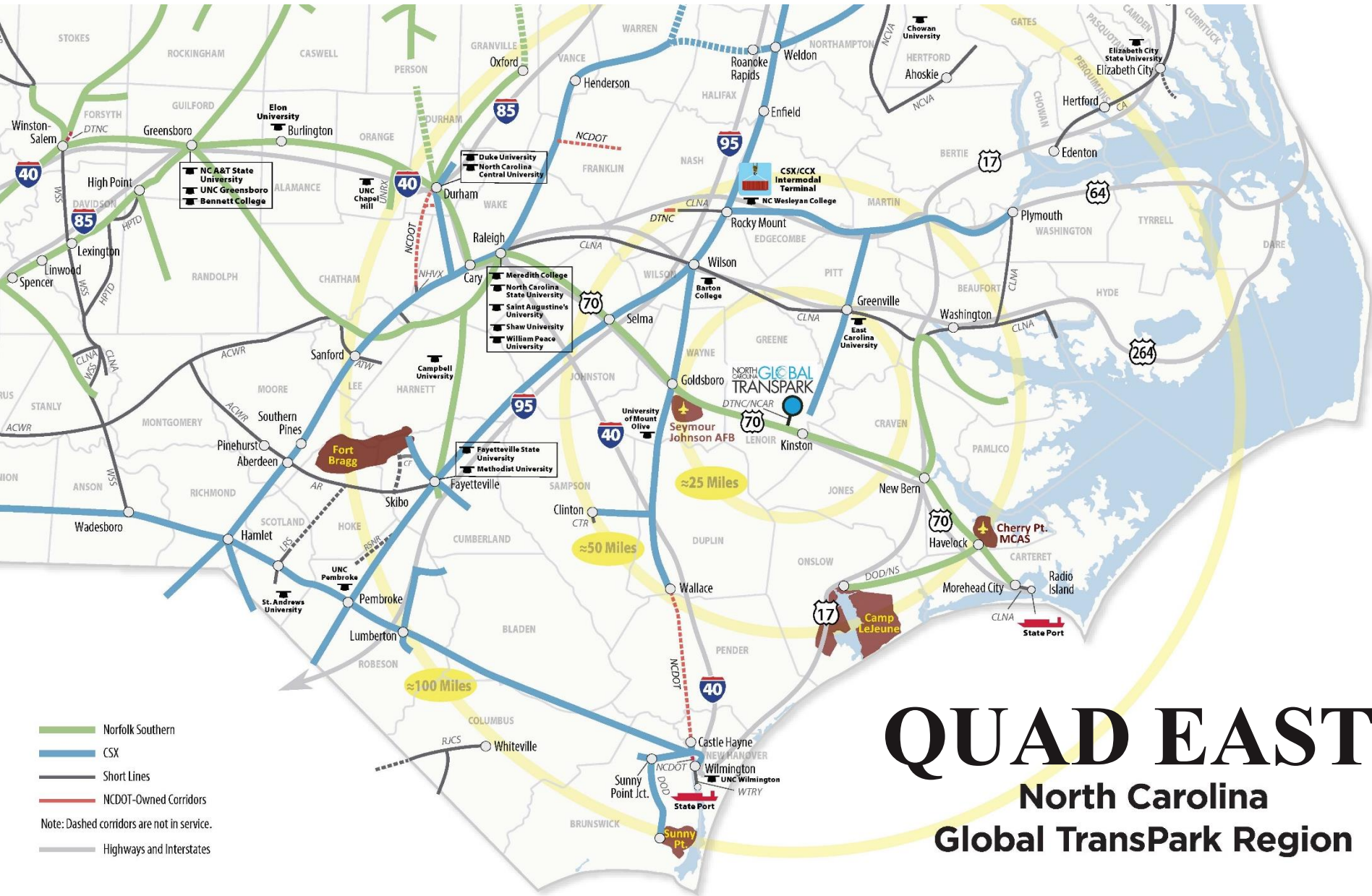


NORTH CAROLINA
RAILROAD
C O M P A N Y



Transload Distribution Center





- Norfolk Southern
- CSX
- Short Lines
- NCDOT-Owned Corridors
- Note: Dashed corridors are not in service.
- Highways and Interstates

QUAD EAST

North Carolina

Global TransPark Region

NORTH CAROLINA **GLOBAL**
TRANSPARK



**SOUTHEASTERN
NORTH CAROLINA**
FOREIGN TRADE ZONE #214



Allen M. Thomas

Executive Director

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NORTH CAROLINA
Department of Transportation



The Future of Transportation

Secretary Jim Trogdon

October 2, 2017

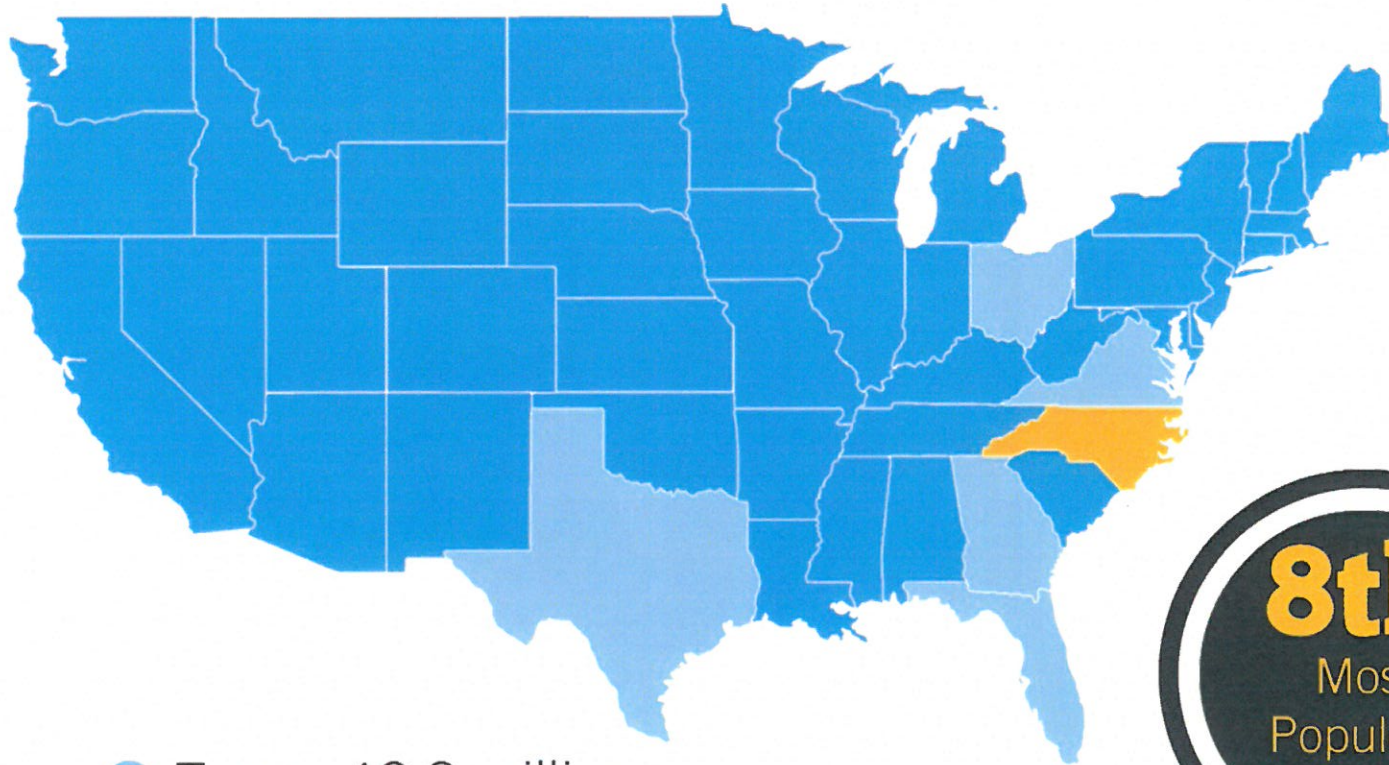


The Future of Transportation

- ❑ Population changes will have a substantial impact on transportation
- ❑ Decline in future years' revenue from motor fuels taxes
- ❑ Changes and challenges related to new technology



Expected Population Growth by 2040



2040
Population
Ranking

- 2 Texas: 40.6 million
- 3 Florida: 28.2 million
- 6 Georgia: 12.8 million
- 8 North Carolina: 12.5 million**
- 9 Ohio: 11.7 million
- 10 Virginia: 10.2 million

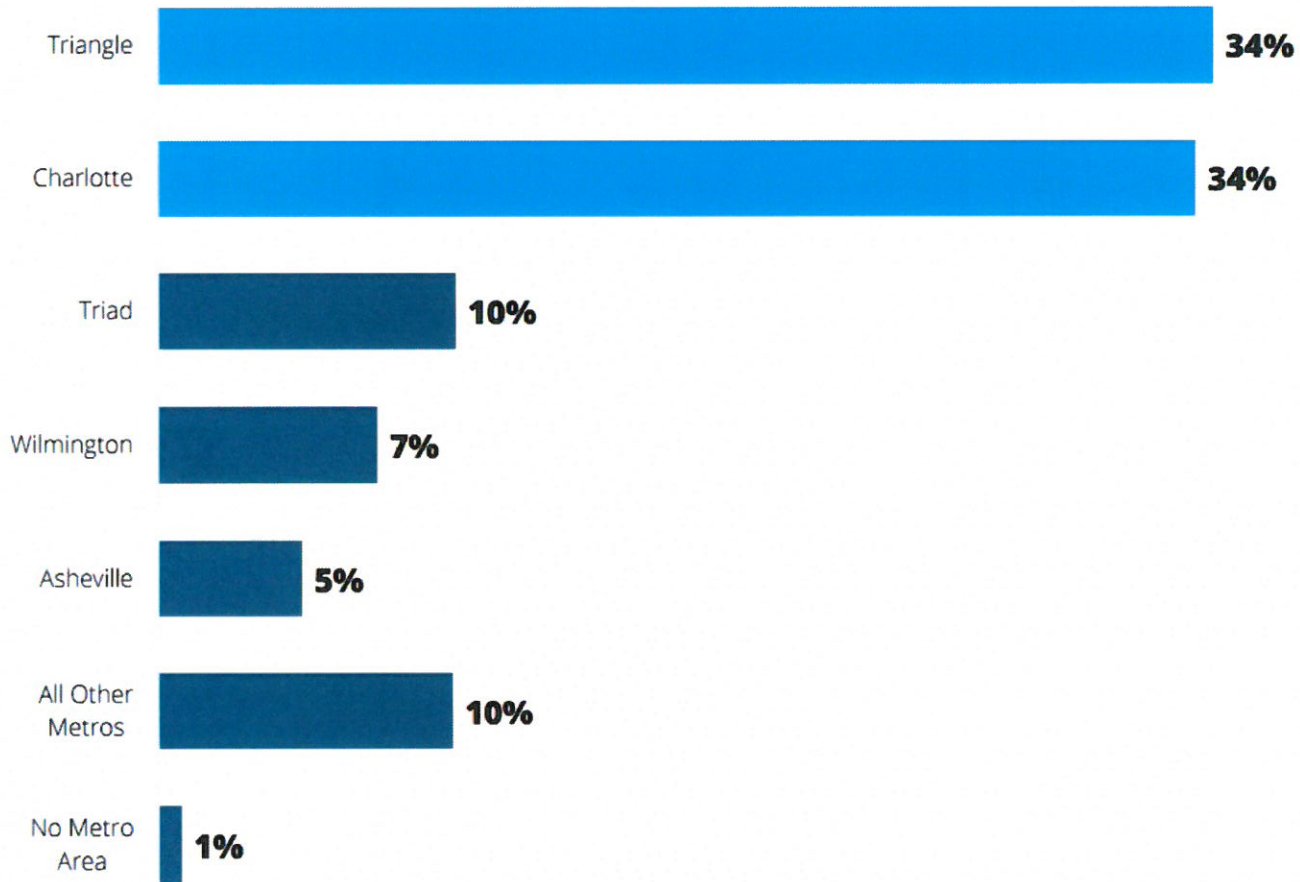
8th
Most
Populous
State

32%
increase
from
NC's 2010
population

NC Demographics

Two-thirds of NC growth projected to occur in Triangle or Charlotte

Projected share of 2010-2035 state population growth for select North Carolina metropolitan areas



Data Source: NC OSBM

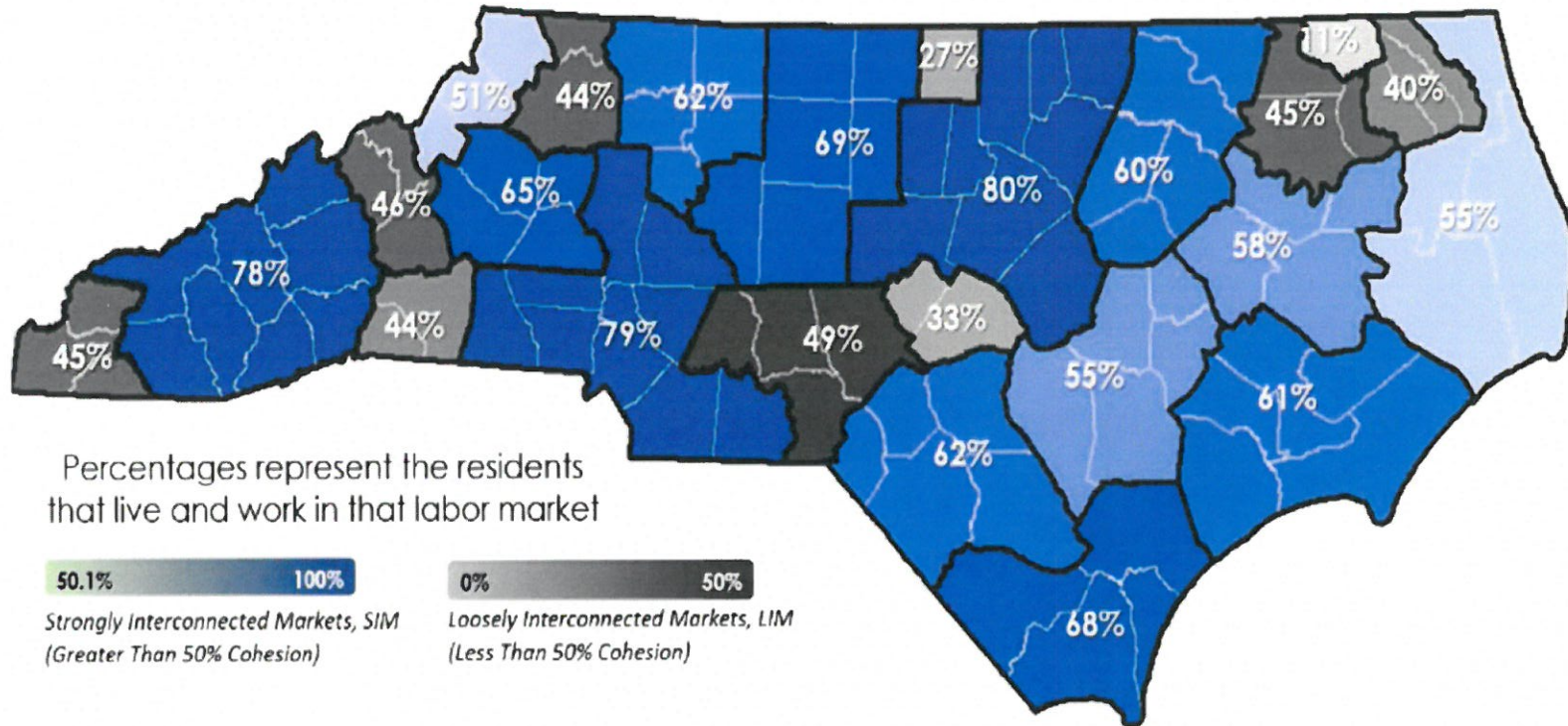
What are we doing now?

- Lack of program delivery has resulted in buildup of cash balance
 - Currently delivering 78% of TIP on schedule
 - Doing too many tasks sequentially
 - Not adjusting to revenue/cost conditions
- Plan of action
 - Reassessed and established new TIP project schedules (complete)
 - Delegated projects for Division Delivery (complete)
 - Revising project development cycles (complete)
 - Monthly monitoring of program delivery status/cash management (in progress)

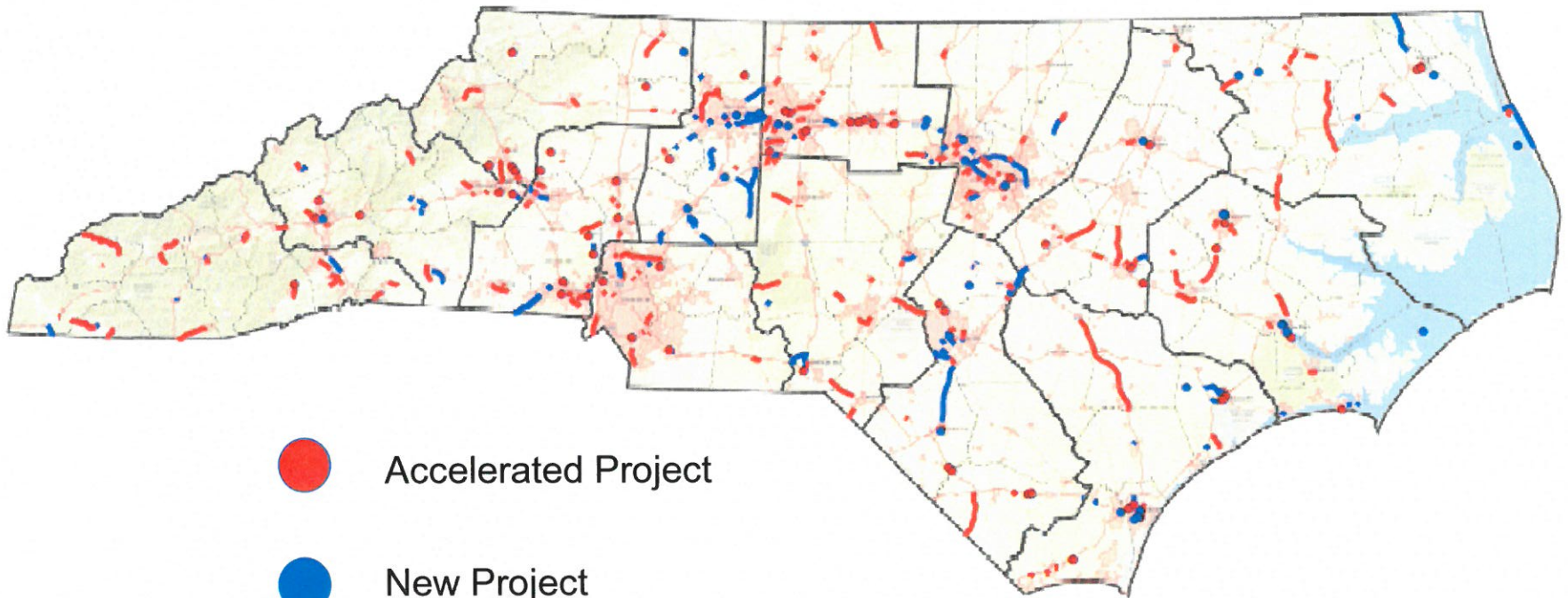
What are we doing now?

- ❑ Division Mobility & Modernization Program to address small projects < \$2 M
- ❑ Division Planning Engineers to be technical support and link to rural planning organizations and municipal planning organizations
- ❑ Better access to tools for MPOs/RPOs to help in project selection and strengthen project competitiveness
 - ❑ GIS
 - ❑ Travel Demand Modeling
 - ❑ Freight Analysis Modeling and Network Performance
 - ❑ Performance Metrics for Safety, Mobility, Condition
 - ❑ Transportation Economic Development Impact System
- ❑ Criteria and weights for projects selection within Division Tier

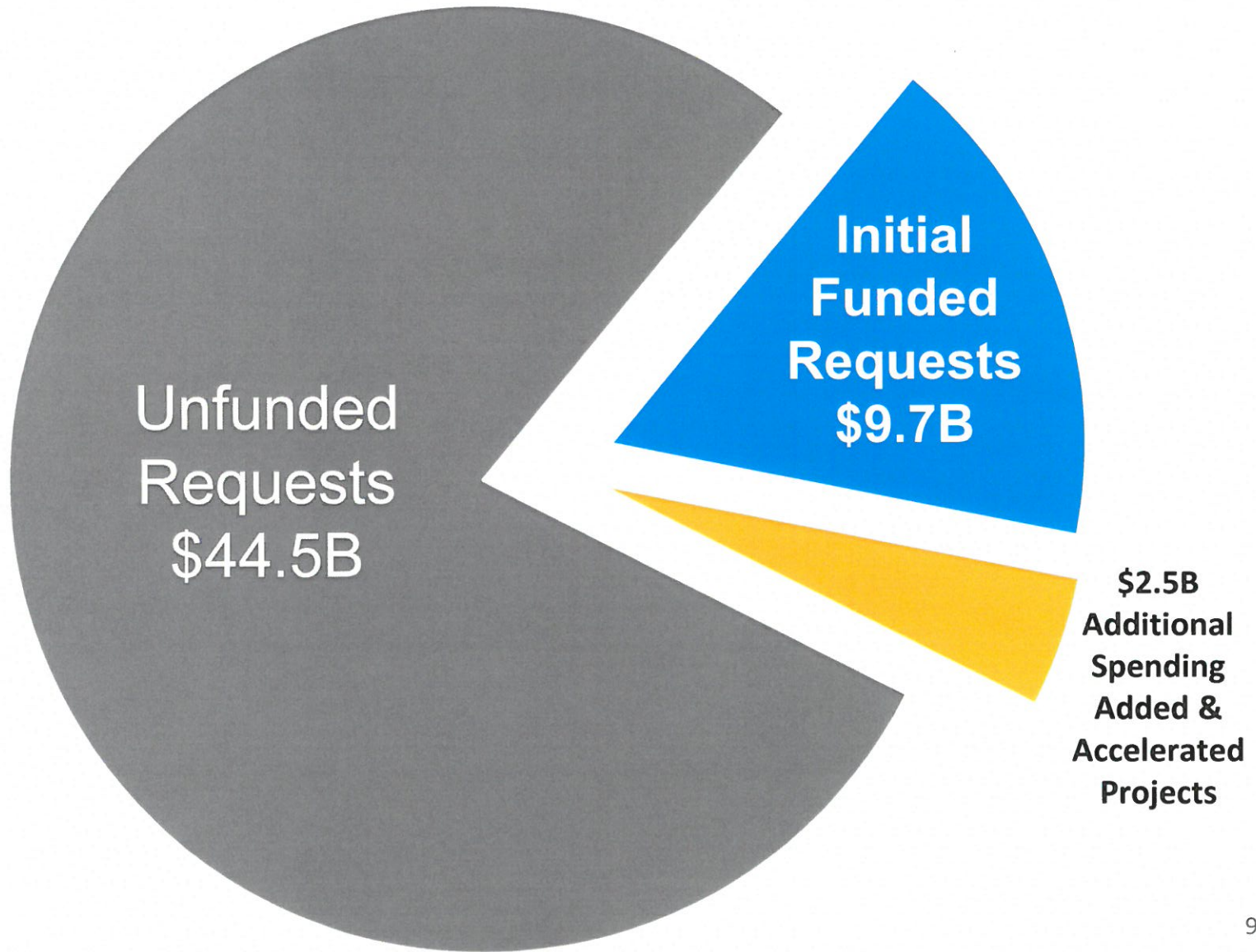
Map of Interconnected Markets, 2011-2014 average

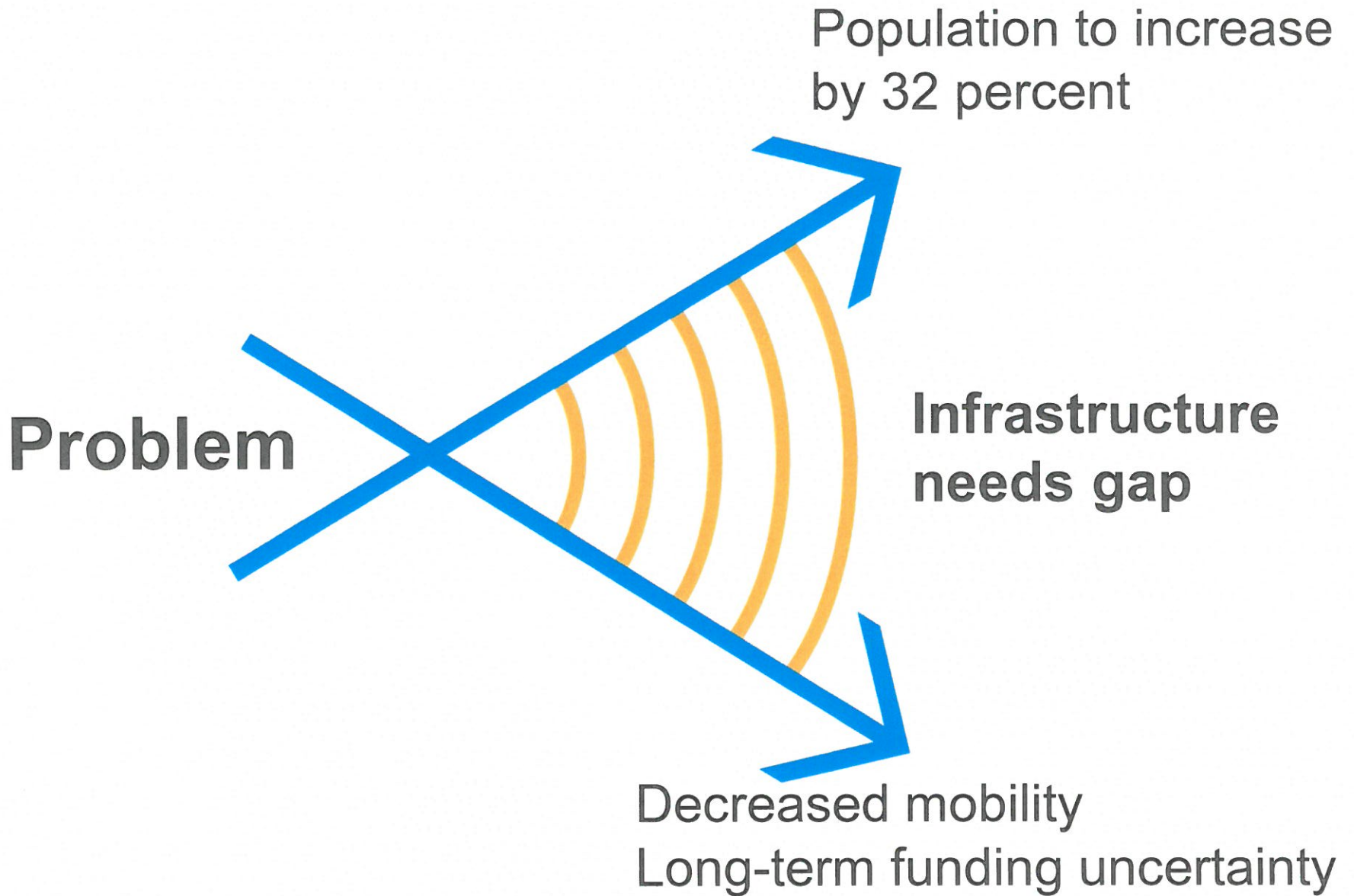


Changes Between the 2018-2027 Draft STIP & Final STIP

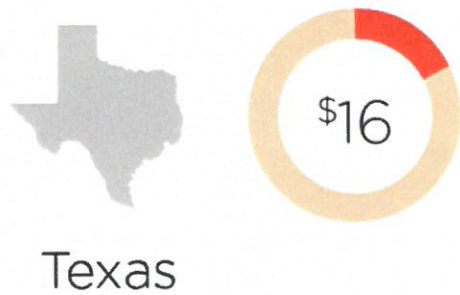


22% of Project Requests are Funded

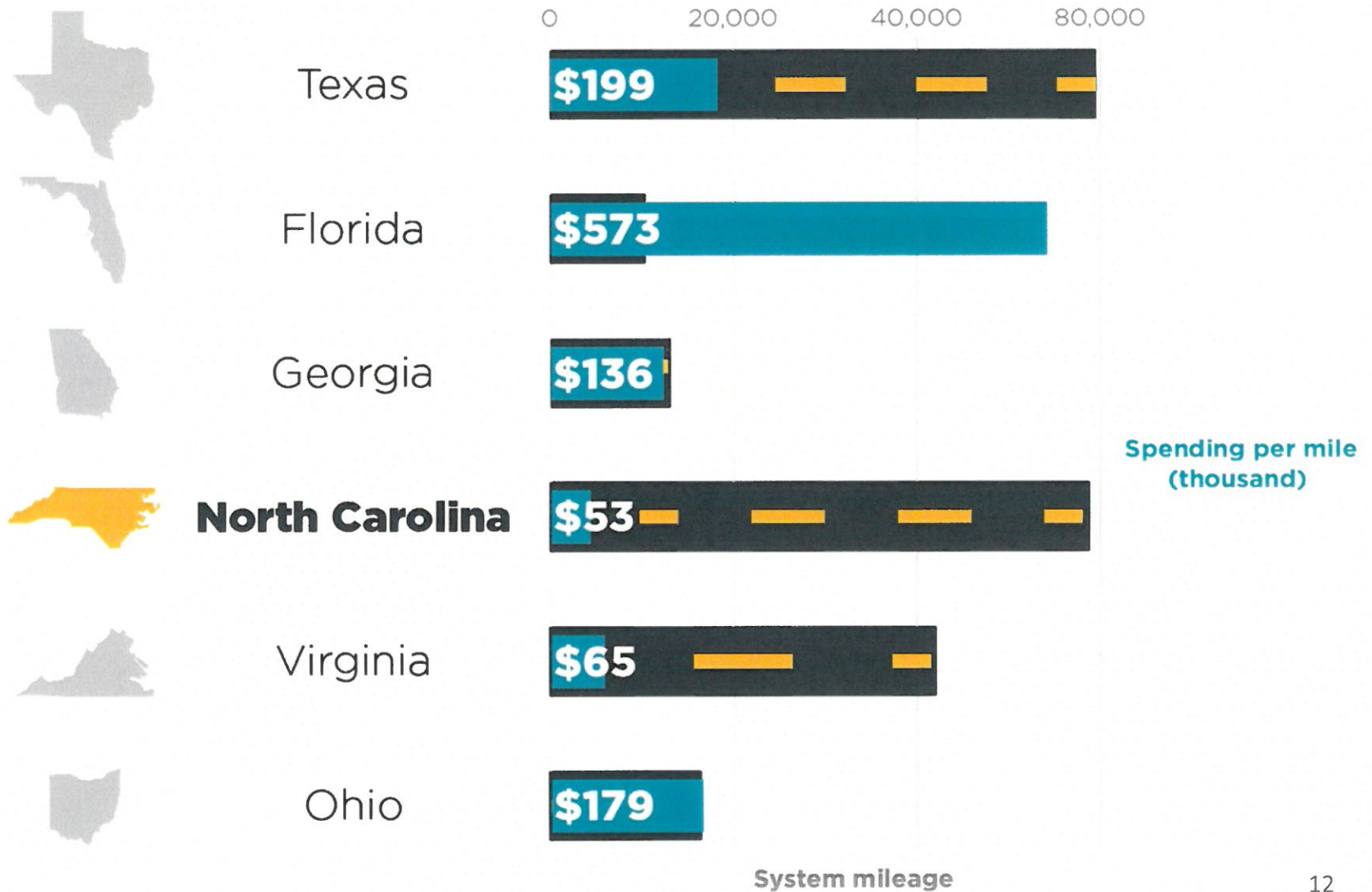




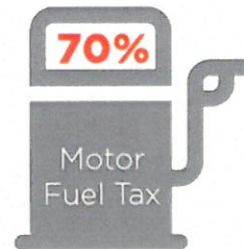
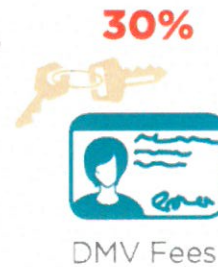
Revenue (\$B) Among Peer States



System Mileage vs. Spending Per Mile

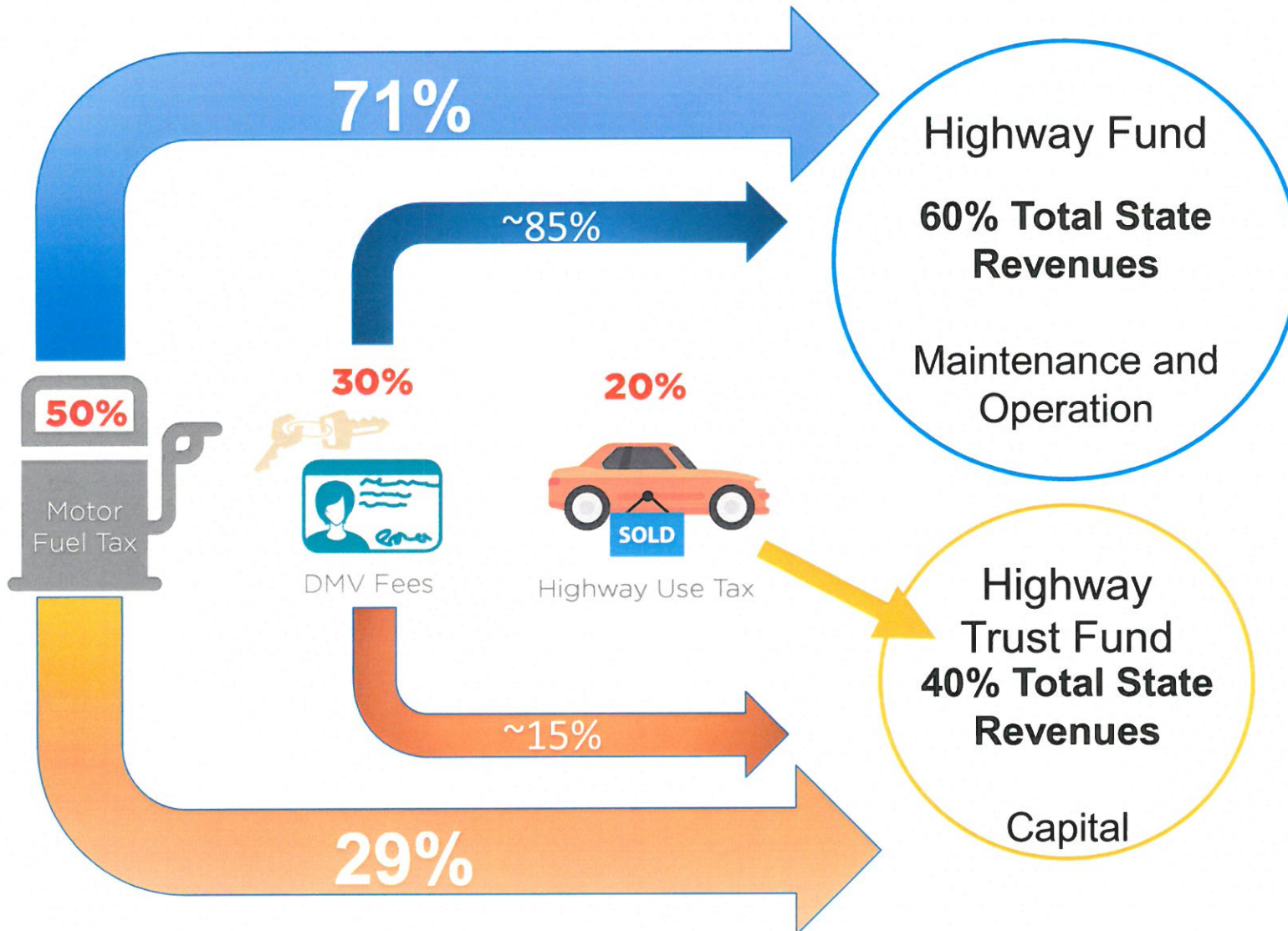


Overly Dependent on Motor Fuels Revenue for Primary Funding



Sources

Funds

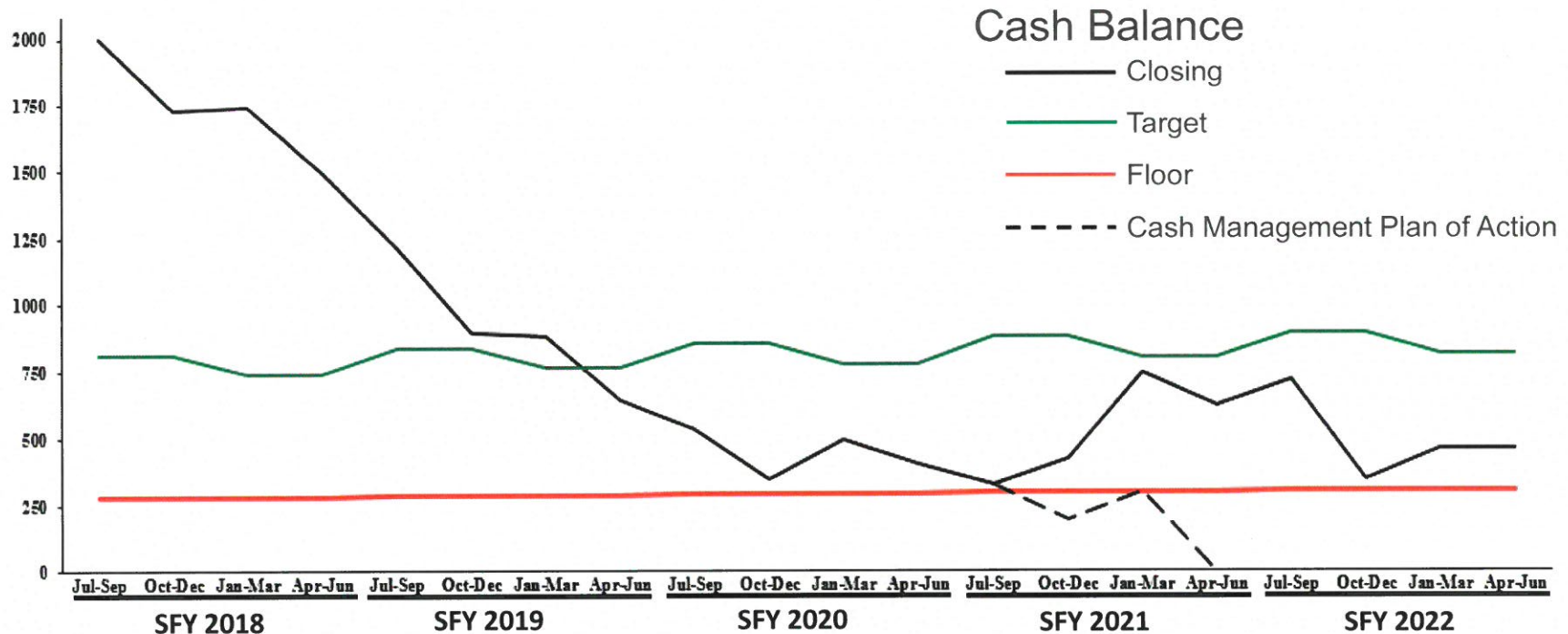


Revenue Challenges

- CAFÉ standards and impacts on motor vehicle usage
- Electric Vehicles will rapidly become the norm
- Uncertainty in Federal funding
- Changing dynamics of vehicle ownership through advancing technology

Additional Tools – Why?

Need to leverage debt affordability to accelerate projects beyond 2 years and find long term-funding solutions simultaneously



Additional Tool – How?

Innovative Financing – State Bonds

- Between \$2B and \$3B for additional projects
- Amount determined by debt affordability studies
- Applied at the Regional & Division tiers of the Strategic Transportation Investments Law
- Cash balance must be at or below \$750 million to trigger future bond sales

Transportation is Critical to Support a Growing Economy

Site Selection Factors

1	Highway accessibility	94.4
2	Availability of skilled labor	89.8
3	Labor costs	89.6
4	Occupancy or construction costs	86.0
5	State and local incentives	84.0
6	Corporate tax rate	82.3
7	Tax exemptions	79.7
8	Energy availability and costs	78.5
9	Proximity to major markets	78.1
10	Quality of life	76.4

Combined Ratings: Corporate Survey 2016 (Area Development Magazine)

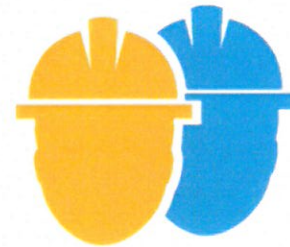
Economic Impact of Innovative Financing



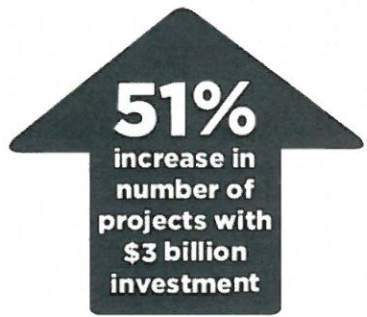
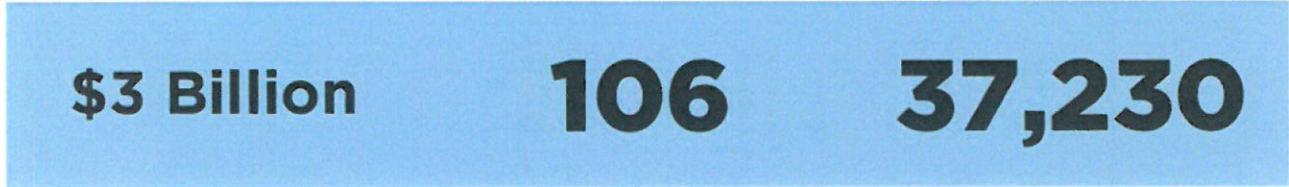
Investment



Projects*



Jobs



*In addition to 513 in the STIP for highways

Autonomous Vehicles



- ❑ Connected / Autonomous vehicles will change our relationship to vehicles
 - ❑ Could result in fewer automobile owners
 - ❑ Will increase safety
 - ❑ Impact to fees generated by vehicle owners is not yet known
 - ❑ Anticipate most if not all new vehicles by 2025 will be CAV/EV
- ❑ Technology will better connect various modes
 - ❑ Systems will be created that link through handheld devices
 - ❑ Transportation will be more about the outcome – reaching a destination – and less about the tools utilized (car, bus, train)
- ❑ Transportation will become a “service” instead of a mode or result of a product

Summary

- NC is growing and changing
- NC transportation needs far exceed resources and not competitive with growing peer states
- Multiple funding tools are necessary to meet immediate needs as we seek long-term solutions
- NC should invest more in transportation using current debt capacity as identified by State Treasurer while we find long-term phased in replacements for Motor Fuels and Federal Revenues

QUESTIONS?



FUNDING APPROPRIATIONS STRATEGIES COMMITTEE (FAST)

DATE: September 6, 2017 TIME: 3:50pm LOCATION: EIC

MEETING CALLED BY	Vice Chair Nina Szlosberg-Landis
BOARD ATTENDEES	Tony Lathrop, David Tyeryar, Allen Moran, Jack Debnam, Mike Wells, Nina Szlosberg-Landis, Landon Zimmer

AGENDA TOPICS

1. DEBT REFINANCING – DAVID TYERYAR	
DISCUSSION SUMMARY	<p>David Tyeryar presented Debt Refinancing (how DOT gets their money).</p> <p>Four projects (Monroe Expressway, Triangle Expressway, GARVEE's, and Triangle Expressway Appropriations). General Assembly appropriates \$24M/yr. for Monroe and Triangle and \$25M/yr. Bonds cover about half of the cost of constructing these projects. Revenue bonds are supported by the tolls and refinancing this year. DOT issues Bonds through the State Treasurer's Office.</p> <p>Monroe was in litigation for two years -- covered \$99.6 cost increase incurred while project was in litigation. GARVEE bonds that were originally on the project that were moved to four other projects in the Charlotte Metropolitan area. \$137m to Monroe Expressway Toll Revenue Bonds and \$166.5M to TIFIA direct loan.</p> <p>\$11M cash Debt Service Reserve Fund (DSRF) \$55M savings from original DOT \$77M STIP budget. Blended rates for Toll Revenue Bonds and TIFIA 3.65%</p> <p>GARVEE's – Revenue vehicles – Refinanced \$224.3M and closed August 2017. Ratings have approved. Savings: \$20.8M gross debt service savings \$19.9M NPV (Net Present Value) True Interest cost 1.39%</p> <p>Triangle Expressway Appropriation bond (BAB's) Refinanced \$162 million and closed August 2017 <u>Savings:</u> \$22.6M gross debt service savings \$18.8M NPV (Net Present Value)</p>
ACTIONS TAKEN	N/A



FUNDING APPROPRIATIONS STRATEGIES COMMITTEE (FAST)

2. TRANSPORTATION FUNDING – BURT TASAICO

DISCUSSION SUMMARY

Burt Tasaico continued his presentation on Transportation Funding Review of where revenues come from (State and Federal Funding)

States are Seeking Transportation Funding and Finance

Some of the Traditional Options are:

- Gas taxes
- Other taxes on motor fuels
- Tolls

Less Traditional:

- Distance-based fee
- Taxes on alternative fuels

Some examples of Transportation Revenues used in other states but not collected in NC

- General Fund
- Rental Auto Sales Tax
- Property Leases or sales
- Vehicle-miles travelled tax (pilot)
- Oil/Petroleum tax
- Weight-distance tax
- Casino taxes

Finance Solutions that borrow against or otherwise leverage revenues

Traditional Options:

- Bonds
- Federal Credit assistance

The Less Traditional Options:

- State infrastructure banks
- Public-Private Partnerships (PPP)

Autonomous/Vehicle Ownership

The car will grow smarter, the industry will evolve with new competition from tech companies, the driver will look at cars differently sharing cars and using them as a space to consume media and make calls, Transportation Funding Modes will have to evolve in anticipation of the change.

ACTIONS TAKEN

N/A



FUNDING APPROPRIATIONS STRATEGIES COMMITTEE (FAST)

3. JULY 2017 MEETING MINUTES	
DISCUSSION SUMMARY	July 2017 FAST Meeting Minutes
ACTIONS TAKEN	Approved Unanimously

4. MEETING ADJOURNED – CHAIR TONY LATHROP	
DISCUSSION SUMMARY	Chair Tony Lathrop adjourned meeting at 5:10pm
ACTIONS TAKEN	N/A



FUNDING APPROPRIATIONS STRATEGIES (FAST) COMMITTEE AGENDA

BOARD OF TRANSPORTATION
OCTOBER 4, 2017

TIME: 3:40pm-5:00pm

LOCATION: EIC

TOPIC	PRESENTER	TIME
Call to Order Roll Call Declaration of Quorum Approval of September 2017 FAST Meeting Minutes	Tony Lathrop, Chair	3:40pm
Risk Management Program	Robin Barfield	3:50pm
Cash Management Model Program	Michelle Overby	4:20pm
Transportation Funding	Burt Tasaico	4:30pm
Adjourn	Tony Lathrop, Chair	5:00pm



NORTH CAROLINA Department of Transportation



Cash Management Model Overview

Michelle Overby, Funds Administration Director

October 4, 2017

Outline

- **Background & Overview**
- **Development and Process**
- **Modules Overview**
- **Model Performance**
- **Cash Management Model Details**
- **How it All Fits Together**

Background and Overview

- **NCGS § 143C-6-11 2014-100**
 - Revised cash target to between 15% & 20% of total appropriations from the Highway Fund and Highway Trust Fund for current fiscal year, including Powel Bill funding requirements
 - Revised cash balance floor to at least 7.5% of the total appropriations for the current fiscal year (previously 5% of revenues)
 - Report Annually to JLTO
- **Session Law 2014-100 Senate Bill 744**
 - Established a cash ceiling of \$1B
 - If balance exceeds ceiling, the DOT must report reasons and plans to reduce the balance to General Assembly and Fiscal Research

Why Cash Flow NCDOT Budget?

Follows Best Business Practice

- Accelerates Project Delivery of Public Good – Start 3 equal projects under cash flow vs. 1 under “pay go” plan
- Reduces Cost – Construction inflation rising faster than idle cash investment returns
- Provides Flexibility to Substitute Projects – Shelf projects fill gap during delays
- Stabilizes Construction Contract Award Schedule – vs. Peaks and Valleys
- Greater Control over Timing of Contract Awards – Stable lets promote more competition, better prices
- Reduces Deferral of Lifecycle Maintenance – Significant future cost avoidance

State DOT's using Cash Flow Budgeting (examples) – Virginia, Maryland, Florida, Texas, South Carolina

USDOT Promotes Cash Flow Project Delivery – Advance construction, TIFIA, GARVEE, PABs, SIBs

Development and Process

Originally Development

- Developed in 2003 and tested for 12 months
- Used Only NCDOT Data
- Originally 12 month Outlook
- Annual “Target” and Historical Monthly “Payout Curves”

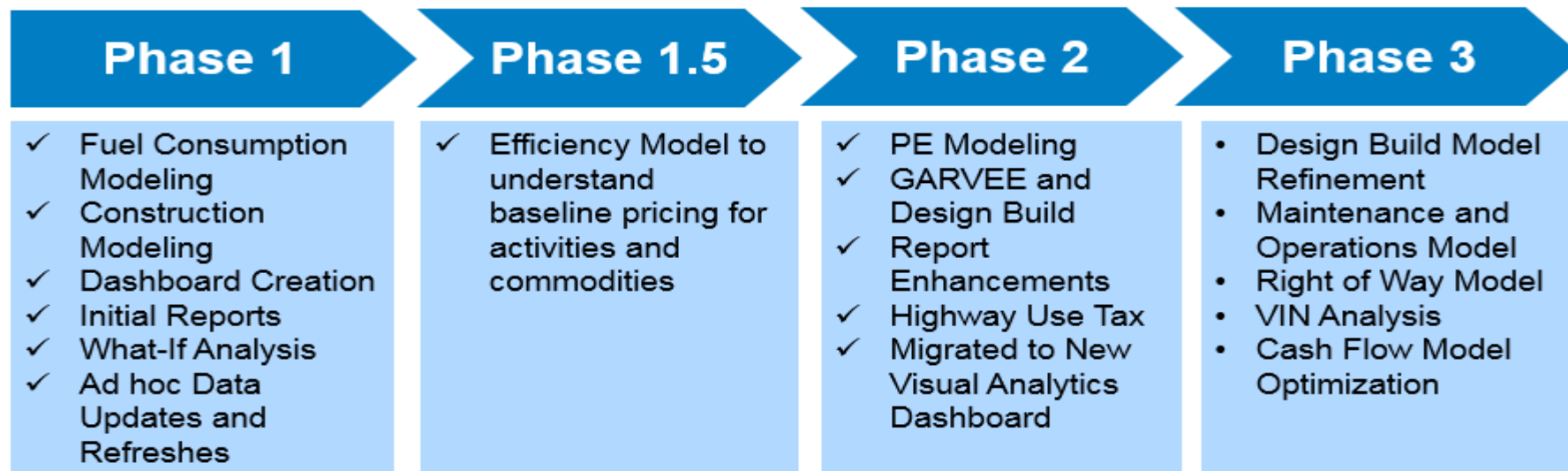
Enhancements by NCDOT

- Added 36 month as well as 5 and 10 year Outlook
- Added Benchmarking Testing
- Added TIP Project Database Capabilities
- Added Modal, ARRA and NCTA Modules
- Added Scenario Evaluation Capabilities

Development and Process

SAS Cash Model Developments

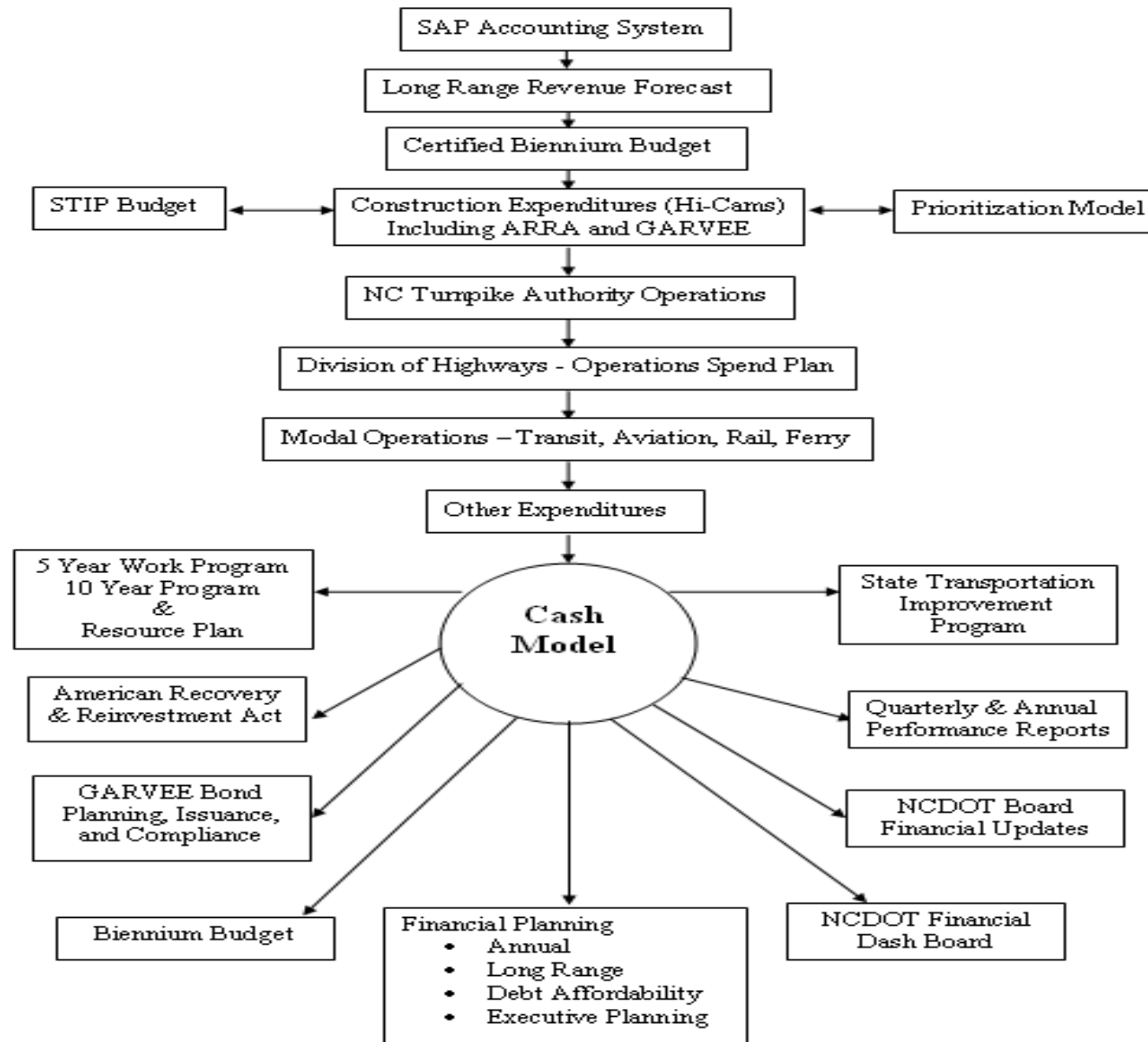
- Phase 1 – Fuel Consumption and Construction
- Phase 1.5 – Baseline Unit Pricing
- Phase 2 – PE, GARVEE, Design Build, and Highway Use Tax
- Phase 3 – VIN, Right of Way, Maintenance & Operations, Design Build, and Cash Flow Optimization



Cash Model Process

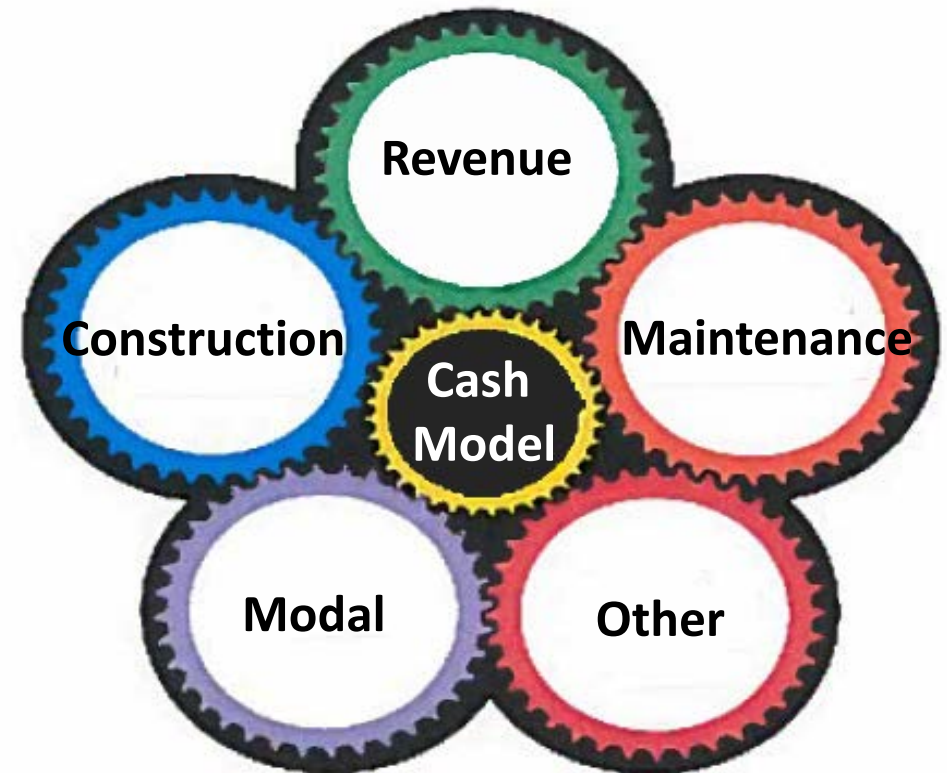


Cash Model Process



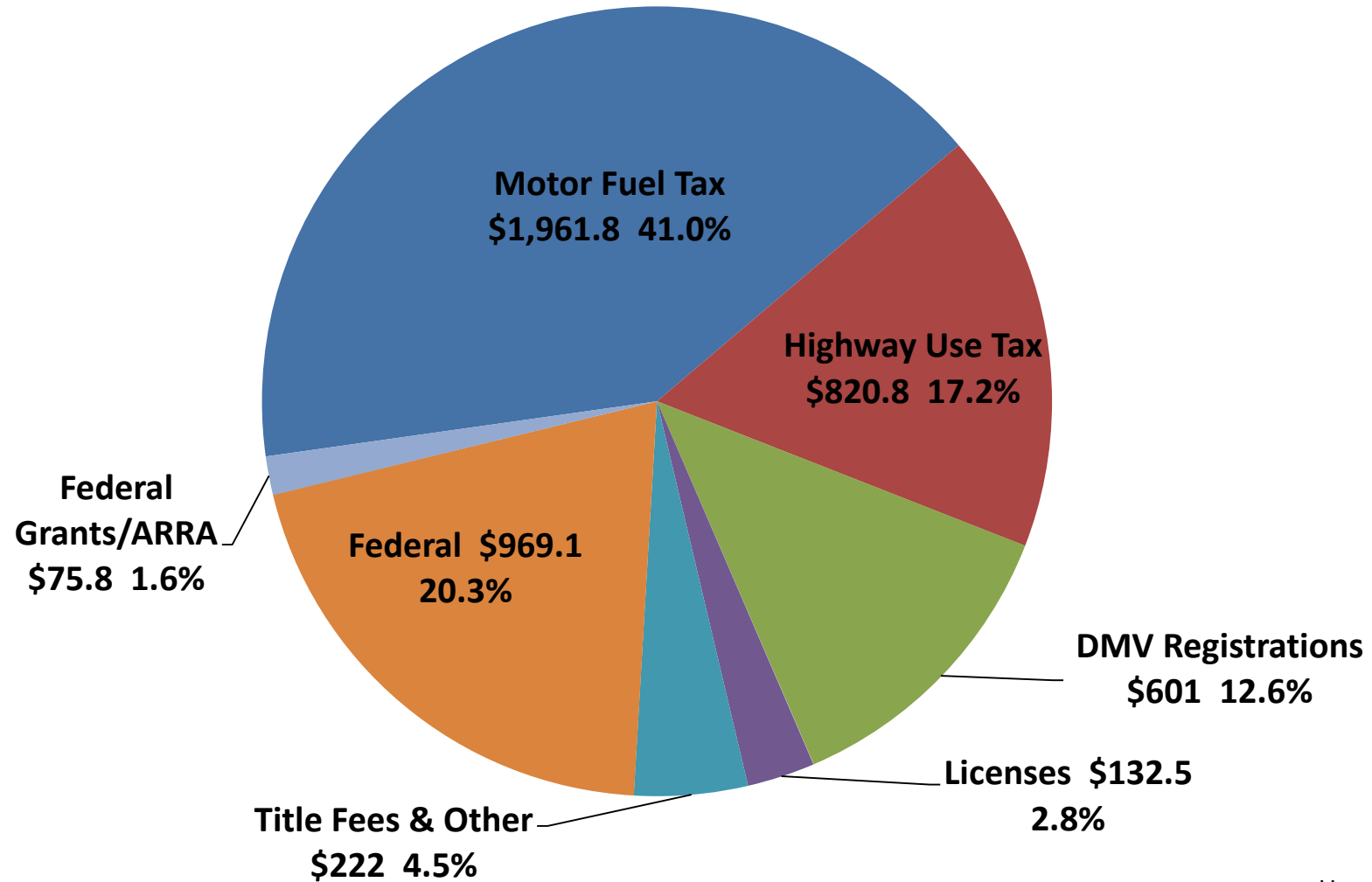
Modules Overview

- Revenue - Federal & State Funding Sources Overview
- Construction – SAS modeling
- Maintenance - Payout Curves
- Modal
- Other Expenditures



NCDOT Revenue Sources SFY2018 - \$4.8 Billion

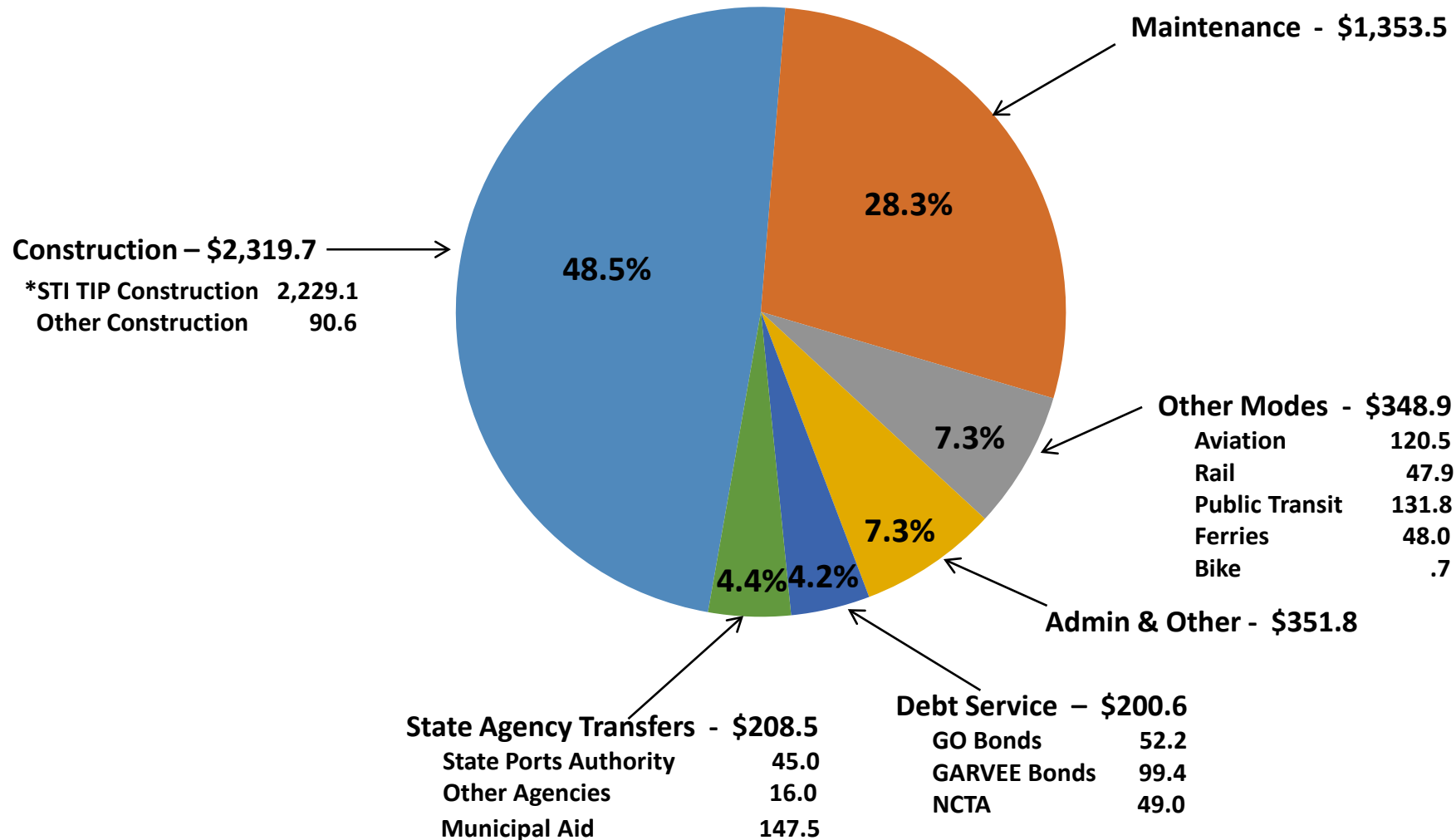
(Excludes Receipt Supported Funding of \$0.1B)



Uses of 2017-18 NCDOT Appropriations

Total Funding = \$4.8 Billion

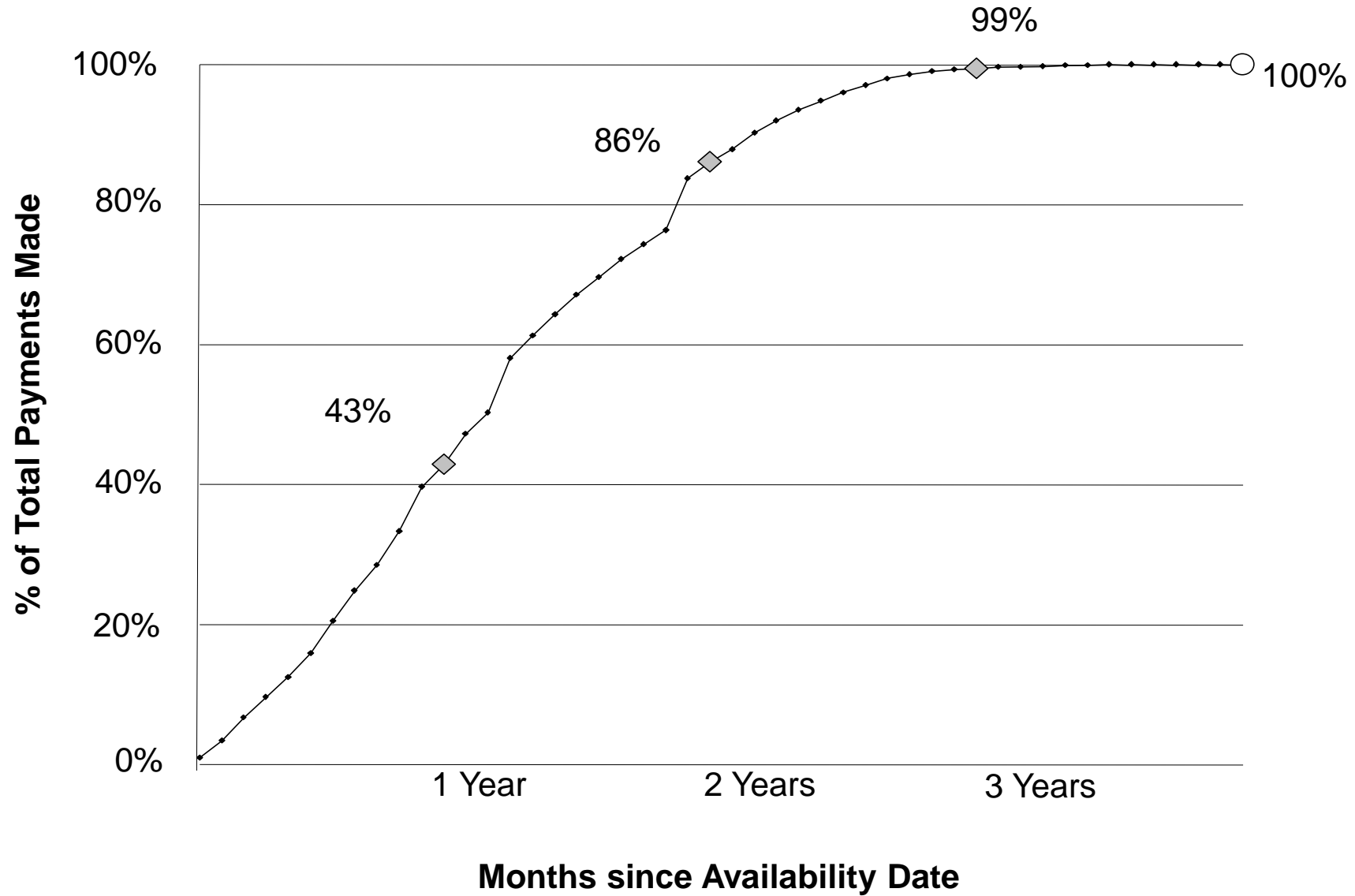
(Excludes Receipt Supported Funding of \$0.1B)



(\$ in millions)

Modules Overview - Construction

Average Contract Payout Curve



Modules Overview - Construction

Current projects consists of four main factors:

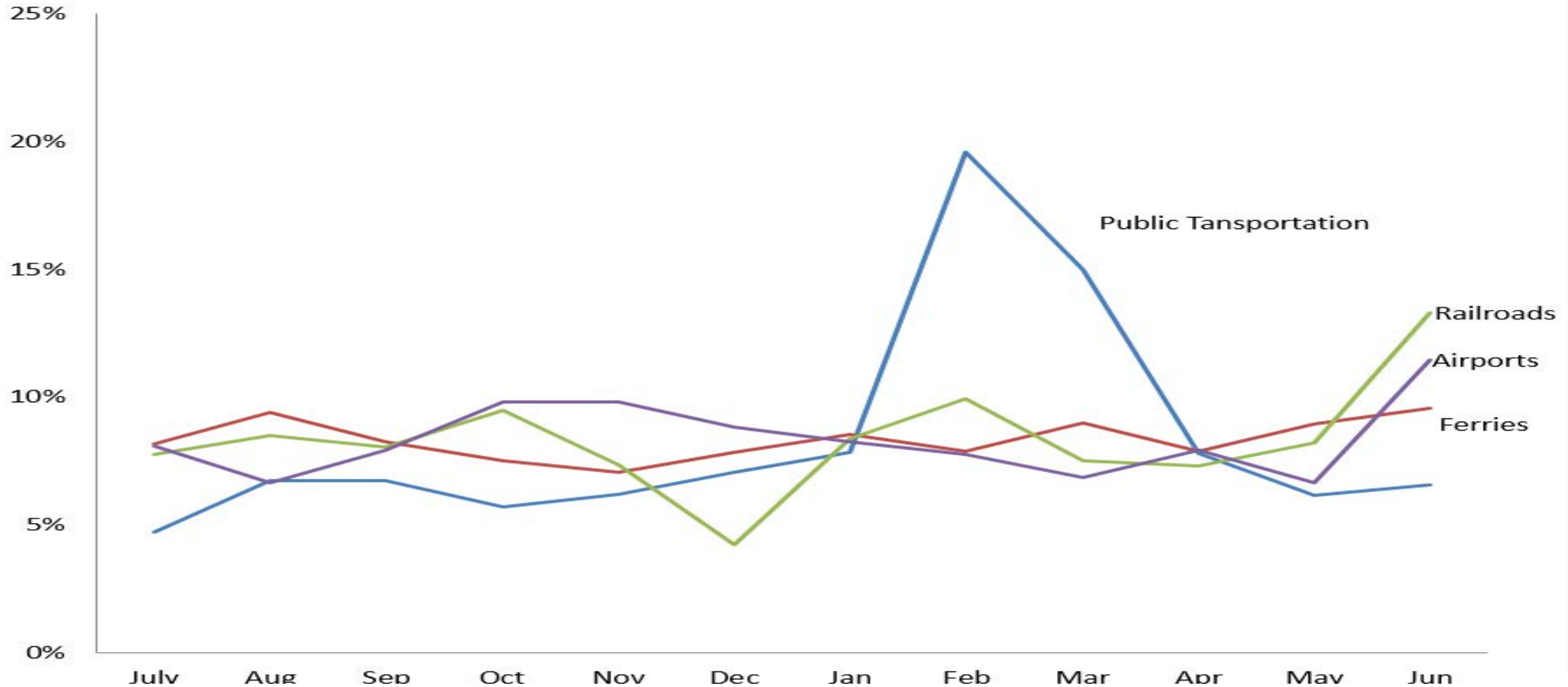
- Baseline billing amount
- Seasonality factor
- Trend factor
- Reconciliation constant

Modules Overview - Construction

Future projects consists of five main factors:

- Let delay estimate
- Construction delay estimate
- Baseline billing amount
- Seasonality estimate
- Reconciliation constant

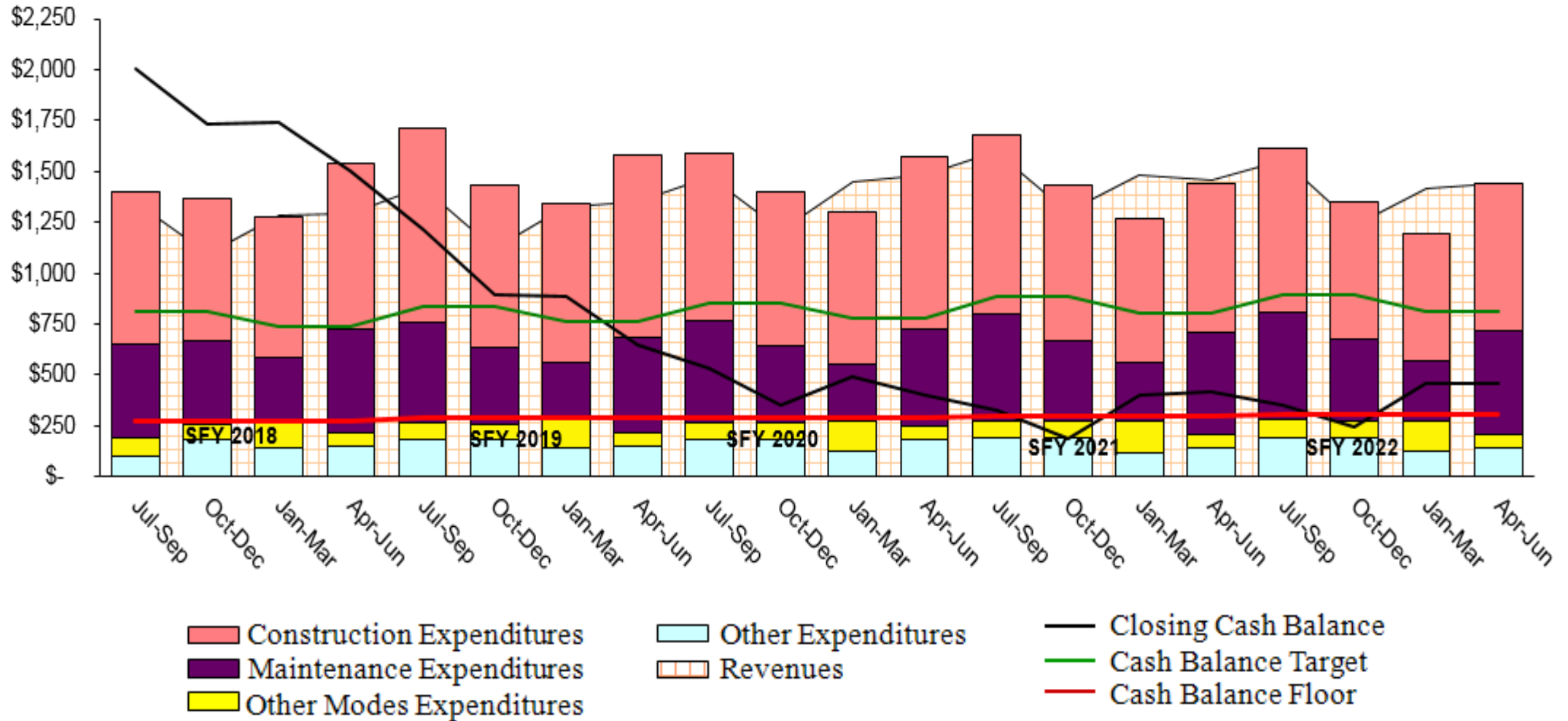
Modules Overview – Modal Average Monthly Distribution



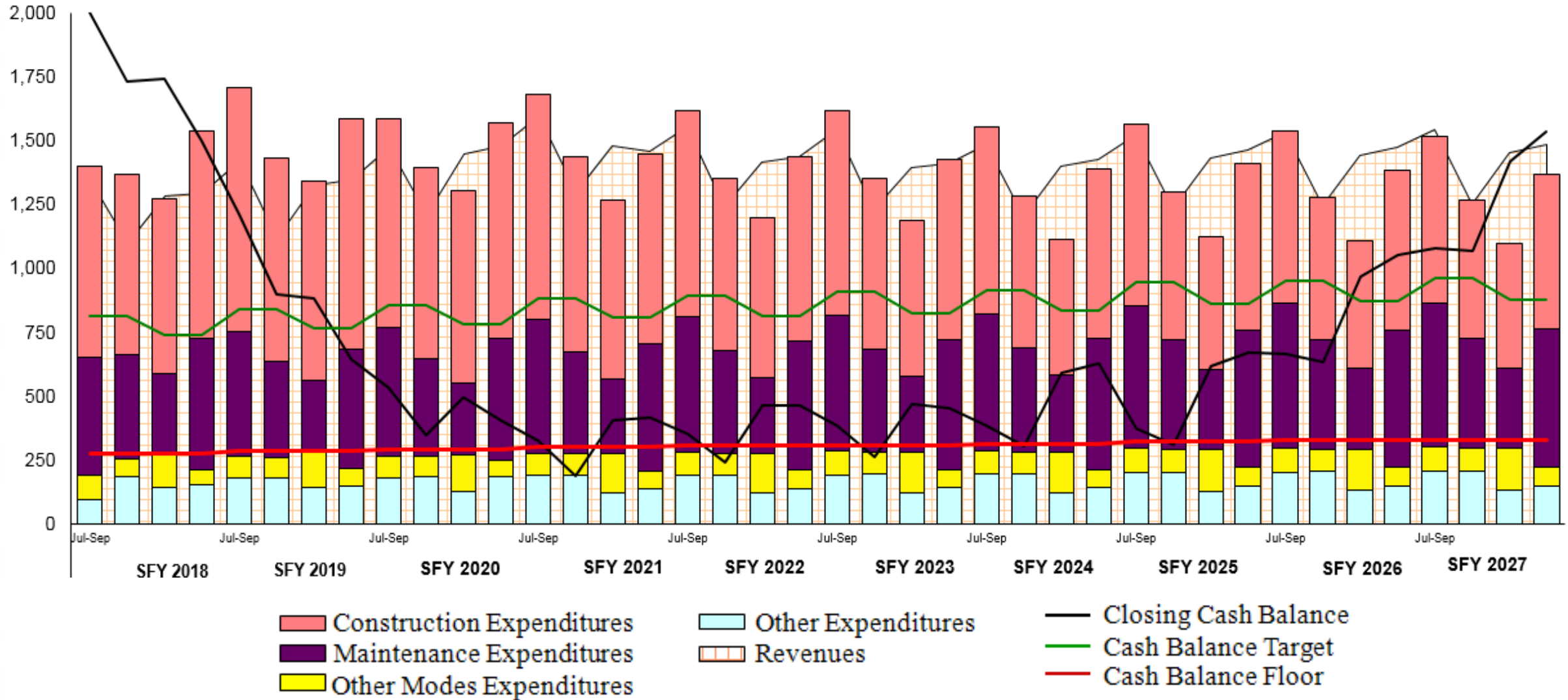
Modules Overview - Other

<u>Category</u>	<u>Frequency</u>
Administration	Monthly
Transfers to Other State Agencies	Monthly
State Aid to Municipalities	Semi-annually (Sep and Jan)
Debt Service	Schedule (Sep & March)
Other Programs	Monthly

5 Year Forecast



10 Year Forecast



Model Performance – Baseline

NCDOT Finances

Select Financial Report:

SFY17: Thru June 2017

David Tyeryar

Chief Financial Officer

Receipts

Planned to Actual Receipts	
Planned	\$5,064.0
Actual	\$5,549.0
Variance	9.6%

Expenses

Planned to Actual Expenses	
Planned	\$5,695.0
Actual	\$5,285.7
Variance	-7.2%

Forecast to Actual

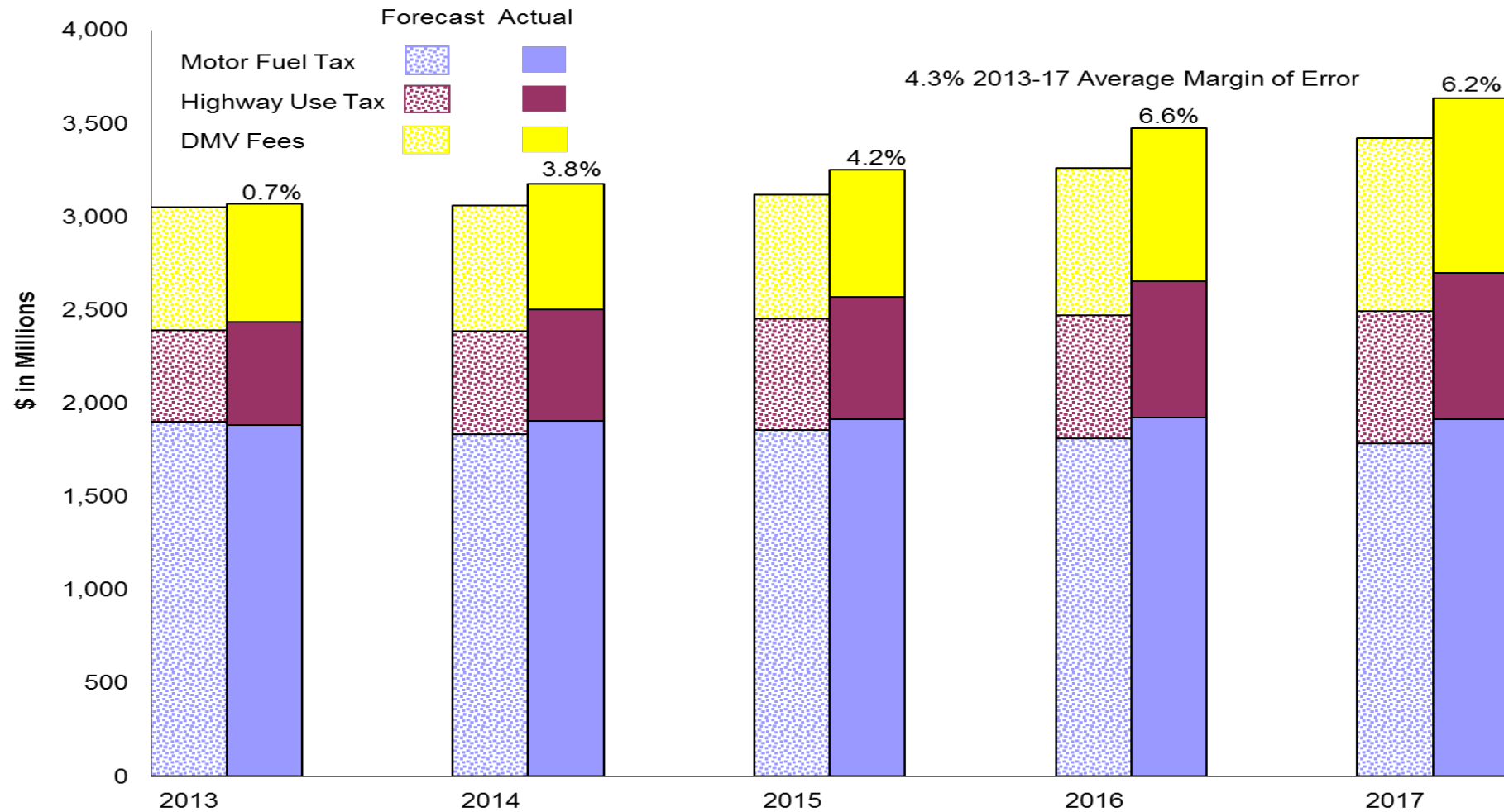
Receipts		Expenses		
State	\$ 3,629,818,045	Construction	\$ 2,331,684,046	MEMO: GAP Funding for NCTA from Highway Trust Fund Triangle Expressway - \$25,000,000 Monroe Connector - \$24,000,000
Toll Rev./Int.	53,856,141	Construction - Stimulus	-	
Federal	1,173,678,067	Construction - NCTA	447,494,684	
Federal Stimulus	95,639,714	Maintenance	1,411,365,816	
Local & Other	28,988,959	Transit & Other modal	251,247,331	
Grants	70,041,026	Transit-Stimulus	-	
Debt - GARVEE	221,355,980	Rail-Stimulus	105,928,182	
Debt - NCTA	<u>275,604,077</u>	Debt Service	160,396,020	
		Fin. Credit Charge-NCTA	85,455,151	
		Admin	272,667,132	
		Agency Transfers	45,563,020	
		State Aid Municipalities	147,181,093	
		Other Programs	<u>26,740,028</u>	
Total	\$5,548,982,009	Total	\$5,285,722,503	
Forecast	<u>5,064,000,000</u>	Forecast	<u>5,695,000,000</u>	
Variance	<u>484,982,009</u>	Variance	<u>-409,277,497</u>	
Variance %	9.6%	Variance %	-7.2%	

Model Performance – 5 Year

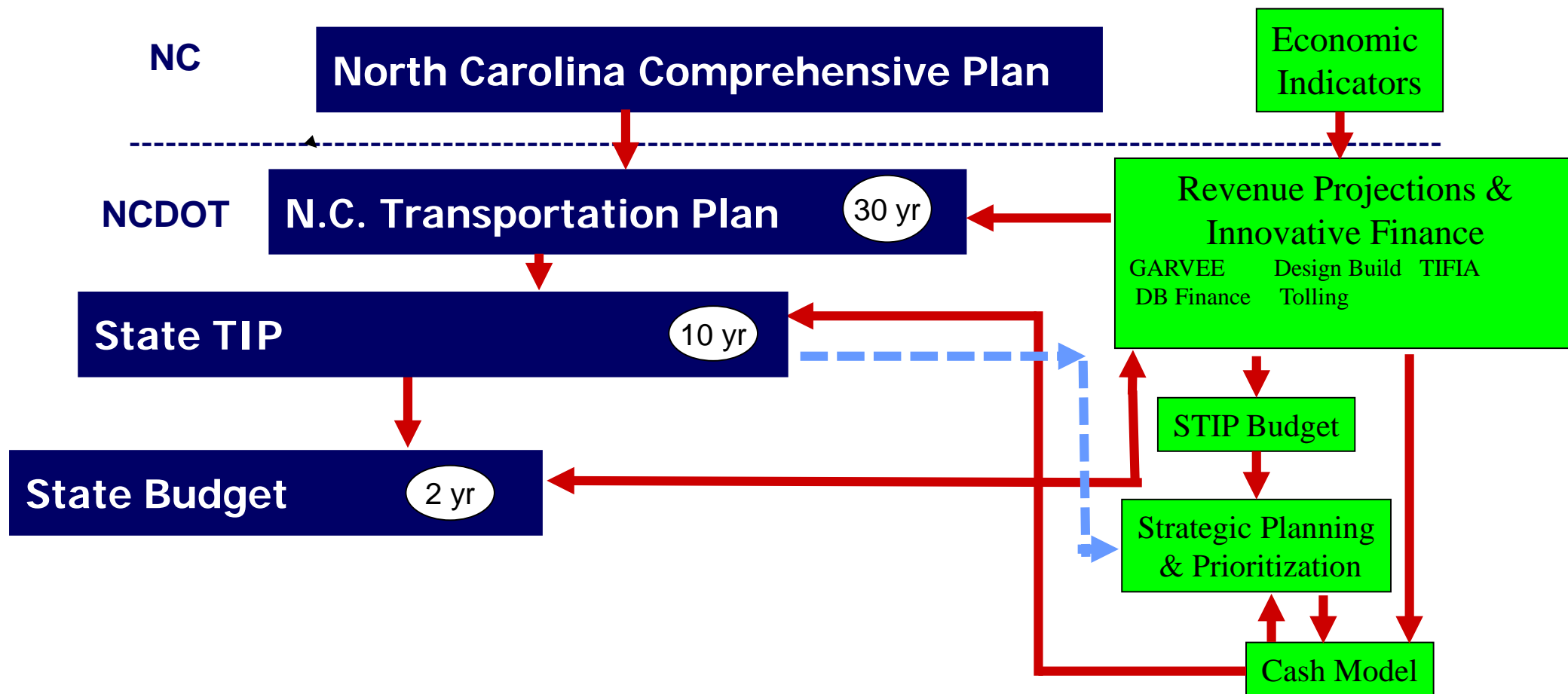
5 Year Cash Model Performance



Model Performance - 5 Year State Revenue Forecast vs Actual

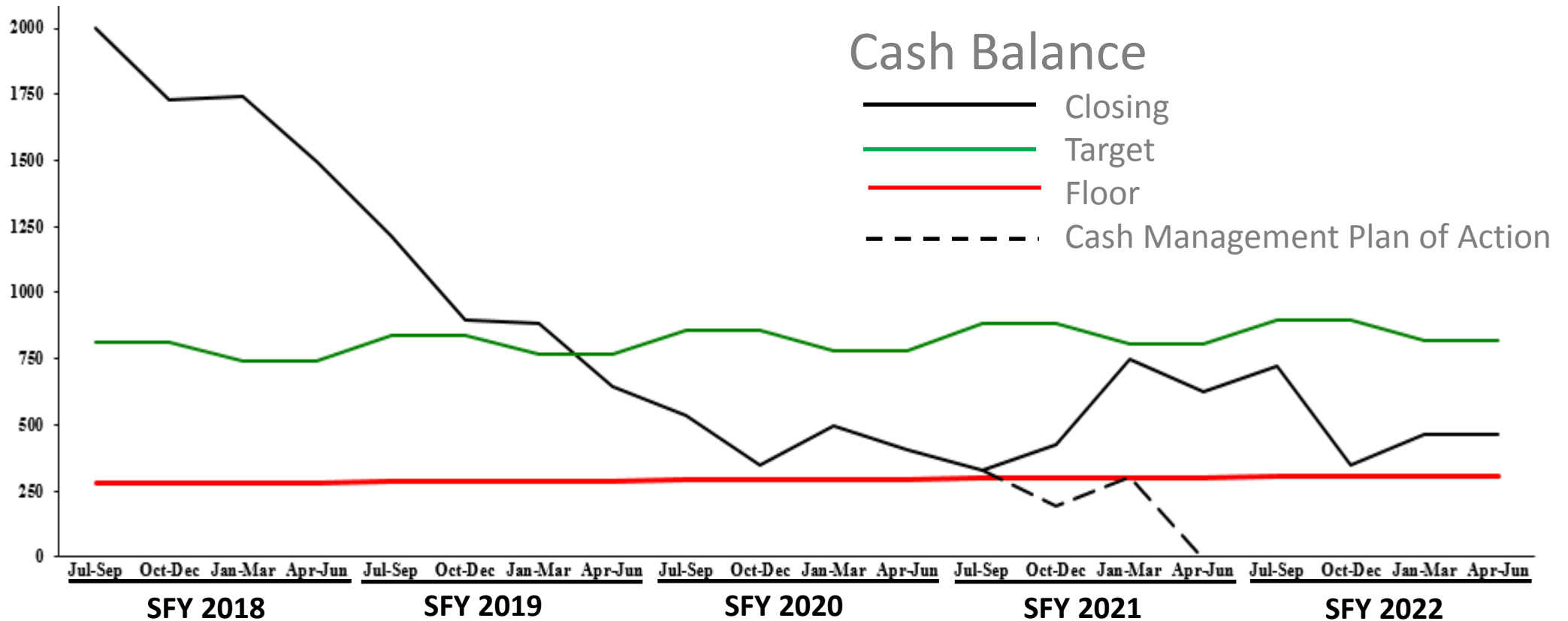


How Does it All Fit Together



Cash Model Scenario Forecasting

Need to leverage debt affordability to accelerate projects beyond 2 years and find long term funding solutions simultaneously



Questions?

Appendix

Revenue Variable and Data Sources

Source	Variables	Data Sources
Motor Fuel Tax	Rate	<ul style="list-style-type: none"> Population – OSBM Demographics CPI-Energy – Global Insight Legislative
	Fuel Consumption	<ul style="list-style-type: none"> In-House Model (SAS)
DMV Fees	Rate	<ul style="list-style-type: none"> General Statute
	Transactions	<ul style="list-style-type: none"> CPI – Global Insight Regression Analysis NC Population Growth
Highway Use Tax	Rate	<ul style="list-style-type: none"> General Statute
	Transactions	<ul style="list-style-type: none"> Historical NC Population Growth
	Vehicle Pricing	<ul style="list-style-type: none"> Global Insight
Federal	Revenue	<ul style="list-style-type: none"> Congressional Budget Office

Modules Overview - Revenue

The SAS fuel consumption model is an ARIMA (autoregressive integrated moving average) model. Variables used include:

Gasoline

1. Oil Price (POILWTI) – Average price of West Texas Intermediate Crude, dollars per barrel, not seasonally adjusted, Commodity Research Bureau
2. Population MPG Ratio (POP_MPG) – Total population of North Carolina, in thousands, divided by the average miles per gallon of the light vehicle stock ($POP_MPG = POPNC/KMPGLV$)

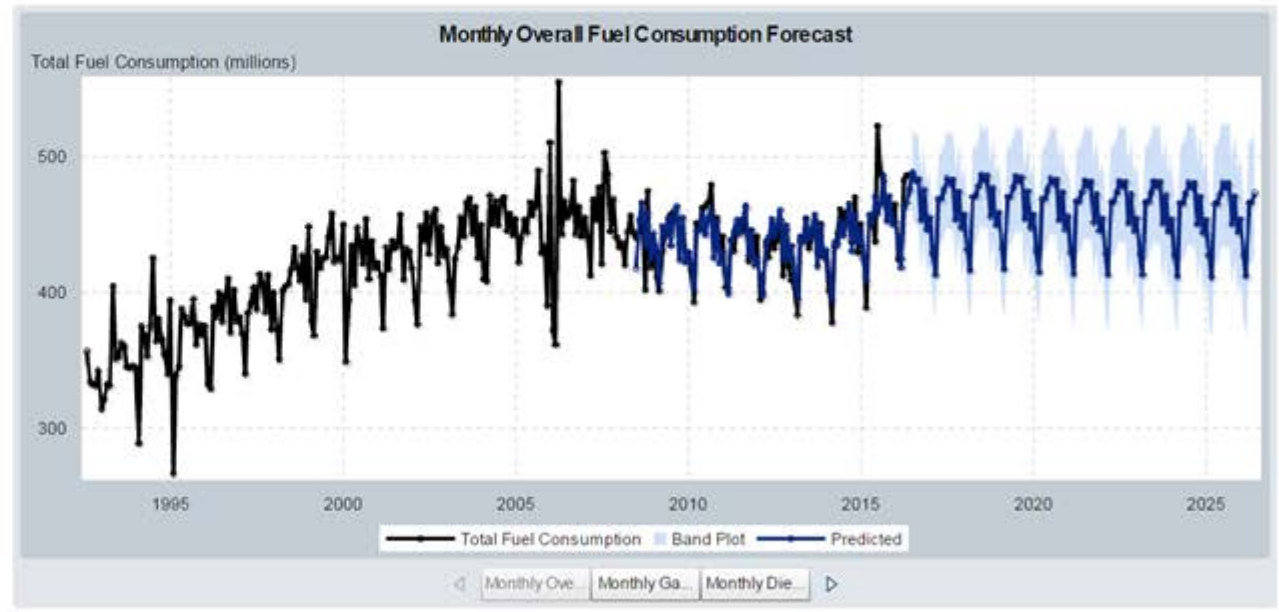
Diesel

1. Construction Employment Ratio (EECONNC_EENC) – Total employment within construction industry in North Carolina, in thousands divided by total nonfarm employment in North Carolina, in thousands ($EECONNC_EENC = EECONNC/EENC$)
2. Oil Price (POILWTI) – Average price of West Texas Intermediate Crude, dollars per barrel, not seasonally adjusted, Commodity Research Bureau
3. Oil Price Shock (SHOCK) – Takes the value of 1 if the absolute value of the percentage change in oil price (POILWTI) from month to month is greater than 5%. Rather than only including oil price, the addition of this oil price shock variable offers enhanced predictability when dealing with extreme deviations in oil price. A magnitude of 5% was chosen to achieve an adequate sample size of historical past occurrences for the model to train on. Larger percentages reduce the effectiveness of the model by diminishing the number of prior observations to develop the model with.

Modules Overview - Revenue

NCDOT FUEL CONSUMPTION

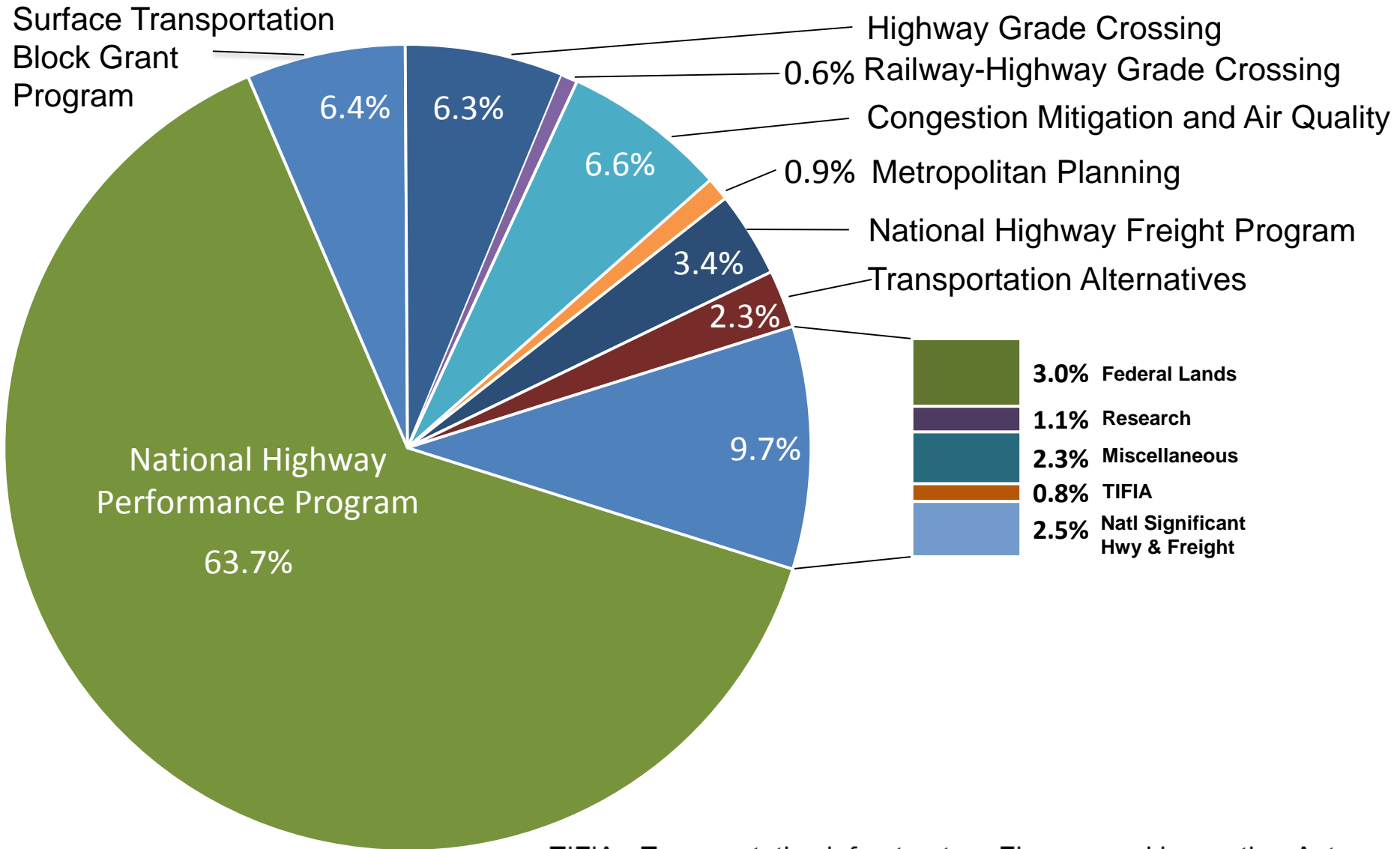
- Fuel consumption forecast developed to assist with overall revenue projections
- Forecasts modeled with economic indicators – oil price, NC total employment, NC construction employment, average light vehicle stock MPG, and NC population
- MPG expected to increase at faster rate than overall NC population leading to near flat overall fuel consumption forecast



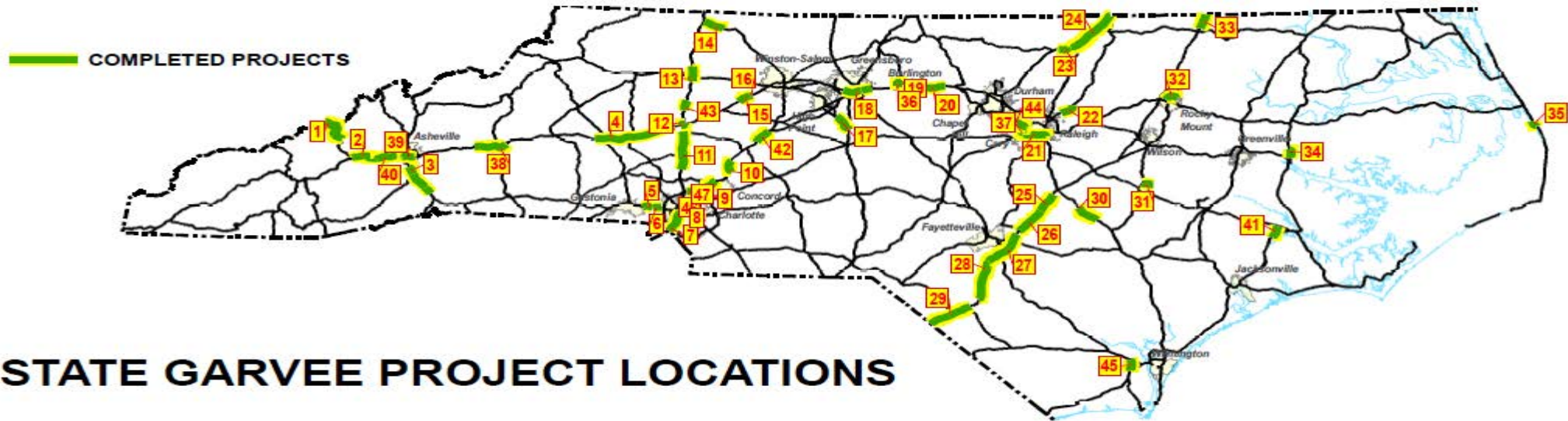
Modules Overview – Federal Aid Revenue

Motor Fuel Tax:	Gasoline	18.4 cents/gallon
	Diesel*	24.4 cents/gallon
	* <i>International Registration Program (IRP)</i>	
Truck Sales:	12% of retail price for trucks over 33,000 lbs. or trailers over 26,000 lbs. GVW	
Truck Use:	Up to 55,000 lbs.	No Tax
	Over 55,000 lbs.	\$100 + \$22/1,000 lbs. over 55,000 lbs. (\$550 maximum)
Tires:	9.45 cents/10 pounds over 3,500 lbs. maximum rated load capacity 4.725 cents for bias-ply or super single tire) <i>Effective January 1, 2005</i>	
General Fund Transfers:	\$143.6 billion since 2008 (through 1/2016)	

Federal Aid in NC (FAST)



Modules Overview – Construction – GARVEE Bond Completed Projects



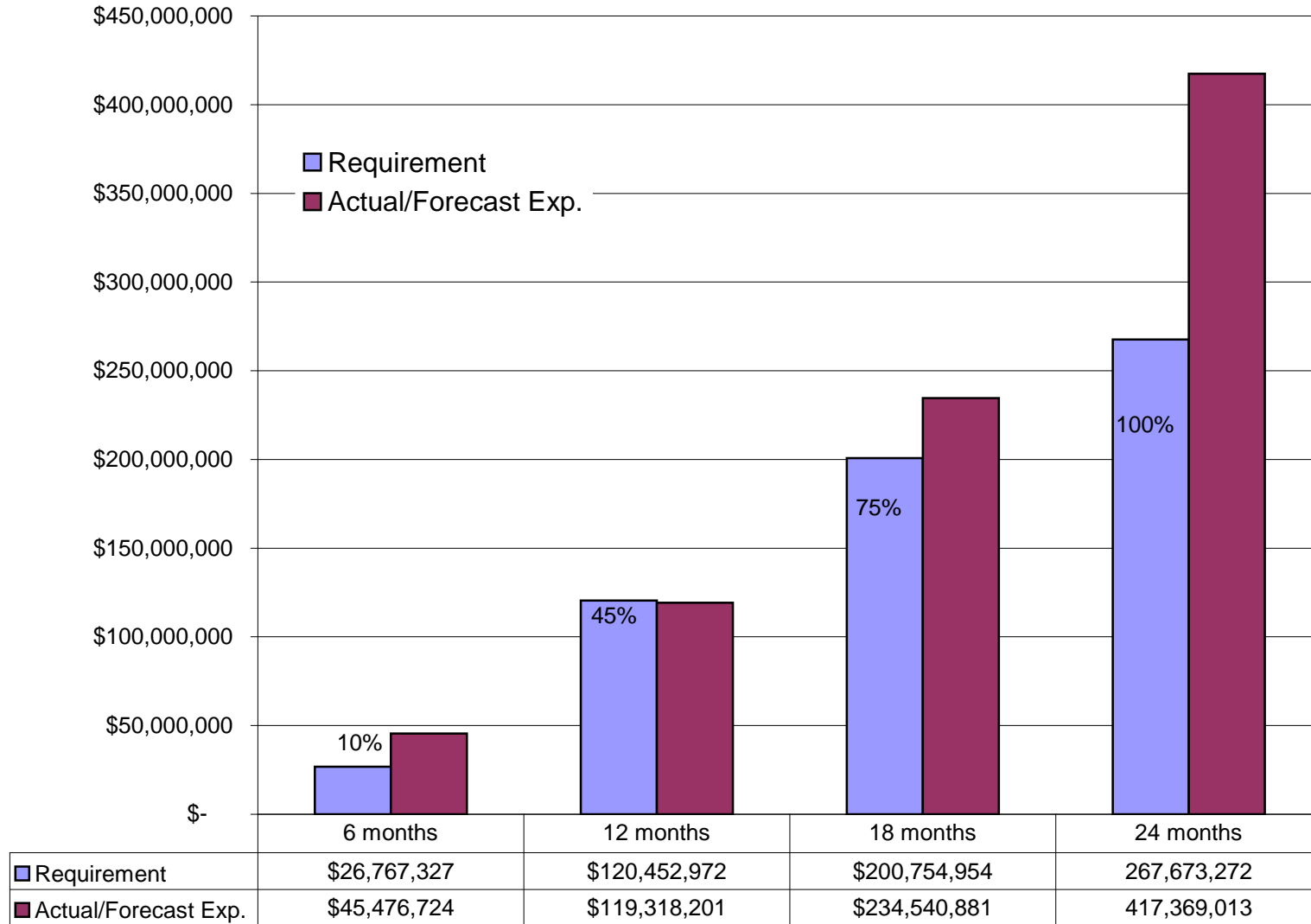
COMPLETED PROJECTS

- 1, I-4910, I-40 IN HAYWOOD COUNTY
- 2, I-5004, I-40 IN HAYWOOD COUNTY
- 3, I-5005A & I-4920, I-26 IN BUNCOMBE AND HENDERSON COUNTIES
- 4, I-5003, I-40 IN CATAWBA AND IREDELL COUNTIES
- 5, I-5007, I-85 IN GASTON COUNTY
- 6, I-5006, I-85 IN MECKLENBURG COUNTY
- 7, I-4720, I-77 IN MECKLENBURG COUNTY
- 8, U-209B, US 74 WIDENING IN MECKLENBURG COUNTY
- 9, I-3803B, I-85 WIDENING IN CABARRUS COUNTY
- 10, I-4718, I-85 IN ROWAN COUNTY
- 11, I-4723, I-77 IN IREDELL COUNTY
- 12, I-3819A, I-40/I-77 INTERCHANGE IN STATESVILLE
- 13, I-2808A, I-77 IN YADKIN COUNTY
- 14, I-5002, I-74 IN SURRY COUNTY
- 15, I-3600, I-40 IN DAVIE COUNTY
- 16, B-3637, I-40/NC 801 INTERCHANGE IN DAVIE COUNTY
- 17, R-2606B, US 311/FUTURE I-74 IN RANDOLPH COUNTY
- 18, I-4715, I-40/BUSINESS 85 IN GUILFORD COUNTY
- 19, I-4714, I-40/I-85 IN ALAMANCE COUNTY
- 20, I-4918, I-40/I-85/ IN ALAMANCE AND ORANGE COUNTIES
- 21, I-4709, I-40 IN WAKE COUNTY
- 22, R-2814B & ROW, US 401 ROLESVILLE BYPASS IN WAKE COUNTY
- 23, I-2810, I-85 IN VANCE COUNTY
- 24, I-4904, I-85 IN VANCE AND WARREN COUNTIES

- 25, I-4906, I-95 IN HARNETT COUNTY
- 26, I-4915, I-95 IN CUMBERLAND COUNTY
- 27, I-4917, I-95 IN CUMBERLAND COUNTY
- 28, I-4711, I-95 IN ROBESON COUNTY
- 29, I-4914, I-95 IN ROBESON COUNTY
- 30, I-5001B, I-40 IN SAMPSON COUNTY
- 31, R-2554BA, US 70 GOLDSBORO BYPASS IN WAYNE COUNTY
- 32, R-2823, ROCKYMOUNT NORTHERN CONNECTOR IN NASH COUNTY
- 33, I-4913, I-95 IN NORTHAMPTON COUNTY
- 34, R-2510C, US 17 IN BEAUFORT COUNTY
- 35, B-5014A, NC 12 OREGON INLET BRIDGE REPAIRS
- 36, U-3110B, NEW ROUTE IN ALAMANCE COUNTY
- 37, I-4744, I-40 IN WAKE COUNTY
- 38, I-4908BB, I-40 IN MCDOWELL COUNTY
- 39, I-5108, I-40 IN BUNCOMBE COUNTY
- 40, I-5109, I-40 IN BUNCOMBE COUNTY
- 41, R-2301A, US 17 NEW BERN BYPASS IN CRAVEN COUNTY
- 42, I-2304AC & ROW, I-85 IN ROWAN AND DAVIDSON COUNTIES
- 43, I-5106, I-77 IN IREDELL COUNTY
- 44, I-5112, I-40 & SR 1728 IN WAKE COUNTY
- 45, R-2633AA, US 17 WILMINGTON BYPASS IN NEW HANOVER COUNTY
- 46, R-2248E, I-485 CHARLOTTE OUTER LOOP IN MECKLENBURG COUNTY
- 47, R-2123CE, I-485/I-85 INTERCHANGE IN MECKLENBURG COUNTY

Modules Overview – Construction - Bond Monitoring & Compliance

Garvee Bond Test
24 Month



Begin Delay
 Delay Months

Letting Scenario Let List Summary Information

(State Fiscal Year Historical and Projected - Cost in Thousands)

Division	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028
1	251,193	95,688	27,771	57,950	47,493	8,588	33,759	16,506	142,421	9,100	62,400	
2	53,110	109,160	98,386	215,916	109,564	109,232	46,397	172,170	36,172		177,900	
3	81,791	189,777	52,245	99,480	349,338	92,397	56,737	236,056	214,372	2,184		
4	94,540	176,273	86,083	128,292	122,565	15,098	71,525	9,735	77,011	49,619	57,735	
5	120,813	302,440	206,328	87,772	388,112	723,220	234,858	185,309	140,301	400,997		
6	70,290	291,883	188,636	65,498	31,350	74,908	100,332	227,026	21,600	60,563	220,767	
7	137,527	295,653	72,236	98,949	62,263	182,386	172,792	49,794		165,383	47,300	
8	29,980	26,777	1,845	157,692	131,172	187,838	18,800			12,800	202,349	
9	244,720	362,116	168,839	56,277	294,912	107,682	184,032	4,653	158,309	312,036	377,255	
10	114,186	323,713	145,722	78,834	655,900	7,000	215,100	14,325	318,200	78,700		
11	74,001	23,630	20,030	135,185	51,000	38,099	42,500	34,700	101,900			6,400
12	178,572	26,705	240,545	154,075	192,855	240,594	120,975	378,073	205,200	322,100		
13	63,091	47,649	15,515	345,300	63,825	228,050	161,120	26,830	124,750			
14	44,697	37,997	289,300	67,520	83,039	83,300	48,460	438,700	400	19,100	94,400	

Month	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028
July	121,732	240,174	356,429	133,837	71,640	69,262	69,950	14,460	236,486	384,306	78,900	6,400
August	216,935	41,995	73,172	7,525	35,028	163,697		2,800	2,184	22,700	27,009	
September	118,156	72,795	372,526	391,652	1,013,232	33,550	177,300	131,606	199,010	9,100	9,100	
October	29,513	205,763	42,469	114,625	117,971	287,051	235,420	397,730	316,219	52,166	305,134	
November	165,619	315,744	7,222	34,574	44,705	13,100	3,025	45,051	2,800	11,000	26,905	
December	185,159	147,153	3,455	126,450	86,848	39,740	24,736	14,500	3,250	31,564		
January	73,411	76,563	145,750	236,864	183,535	283,149	169,461	629,642	397,168	712,893	505,489	
February	114,989	44,645	22,455	110,261	408,274	234,331	158,500	13,816	30,500	100,188		
March	60,800	626,573	109,222	21,553	27,940	159,704	211,973	8,275				
April	112,208	21,214	55,363	33,130	37,647	27,410	53,332	67,000	20,833	56,200		
May	172,968	294,382	33,438	48,074	70,000	213,100	78,536	35,748	58,590			
June	187,021	222,461	391,980	490,195	486,568	574,298	325,154	433,249	273,596	52,465	287,569	

Begin Delay
 Delay Months

Letting Scenario Let List Summary Information

(State Fiscal Year Historical and Projected - Cost in Thousands)

Category	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028
A				29,000		90,100		314,100				
B	467,622	137,526	113,564	124,491	70,606	91,856	67,566	78,465	39,505			6,400
C	114,069											
EB	8,713	4,575	7,050	3,845	339	9,404	2,025	3,528	800	125		
ER		275										
F	4,570	12,000			1,725							
I	221,176	843,665	667,185	380,665	141,975	371,458	193,725	670,001	29,610	829,305	47,300	
M	195											
R	373,060	293,709	333,891	766,471	620,543	498,324	445,515	324,714	656,535	164,987	782,900	
U	295,992	945,922	465,298	386,811	1,743,326	1,036,450	798,556	403,069	814,186	438,165	409,906	
W	71,361	71,788	26,493	57,457	4,874	800						
X	1,754											

STI Category	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028
	929	12,170	254,754	408,338	805,923	209,300	114,200	379,750	353,839	21,762	159,150	
DIVISION	373,960	323,737	290,266	551,473	461,262	392,970	444,045	352,309	381,315	204,190	603,144	6,400
EXEMPT	1,809	1,187	13,700									
REG/DIV				164,200								
REGIONAL	695,939	737,955	341,734	390,996	861,804	632,385	630,104	147,862	593,596	359,765	240,274	
STATEWIDE	484,849	1,232,288	713,027	233,733	454,399	863,737	319,038	913,956	211,886	846,865	237,538	
SW/REG	1,025	2,125										

CM Category	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028
GARVEE		409,445	140,000	396,300	212,700							
MOBILITY	1,558,511	1,900,016	1,473,481	1,352,440	2,370,688	2,098,392	1,507,387	1,793,877	1,540,636	1,432,582	1,240,106	6,400
SFY Count	224	292	162	148	147	112	92	78	63	39	31	1
SFY Total	1,558,511	2,309,461	1,613,481	1,748,740	2,583,388	2,098,392	1,507,387	1,793,877	1,540,636	1,432,582	1,240,106	6,400

Report Date September 25, 2017
 Project Cost
 Between:
 And:

STI Category

- Bridge Safety Locked
- Non-HiCams Locked

- ARRA Include
- GARVEE Include
- MOBILITY Include
- NCTA Exclude
- LOOP Include
- Awarded Include
- Split Fund Include
- Design Build Include
- DPOC, BPOC Include
- DDL Include
- MUN Include
- HiCams Exc. Exclude
- Div. Exp. Include

Highway Maintenance Improvement Program

- SB 744 Section 34.11.(a) G.S 143B-350(f) indicates that one of the duties of the Board of Transportation is to approve a schedule of State highway maintenance projects and their anticipated costs. This schedule is called the Highway Maintenance Improvement Program (HMIP) and is to be published on the Department's Web site by April 1 of each year.
- In addition, the Chief Engineer shall establish a three-year improvement schedule, sorted by county, for rehabilitation, resurfacing, and pavement preservation activities.

Summary of HMIP approved at the March-2017 Board Meeting:

Fund Sources	2018	2019	2020
Pavement Preservation	\$85M	\$85M	\$85M
Contract Resurfacing	\$495M	\$495M	\$495M
Miles of Treatments	2018	2019	2020
Preservation	2,563.4	2,174.2	1,941.8
Resurfacing	2,417.7	2,406.3	2,246.6
Rehabilitation	80.7	38.8	89.2



NORTH CAROLINA
Department of Transportation



Safety & Risk Management

Robin Barfield

October 4, 2017

Safety Management System Project

Safety Audits

- Track OSHA safety audit compliance (OSHA 29 CFR 1910.147)
- Identify weaknesses and solutions while providing visibility across the state
- Provide easy to use interface for submitting safety audits
- Increase accountability and timeliness of corrective actions
- Reduce redundant reporting and data capture
- Identify enterprise risk
- Track OSHA meetings and activities across the state

Dashboards

- Use collected data to provide executive dashboards
- Integrate with SAP/Use analytical capabilities of procured solution

Training

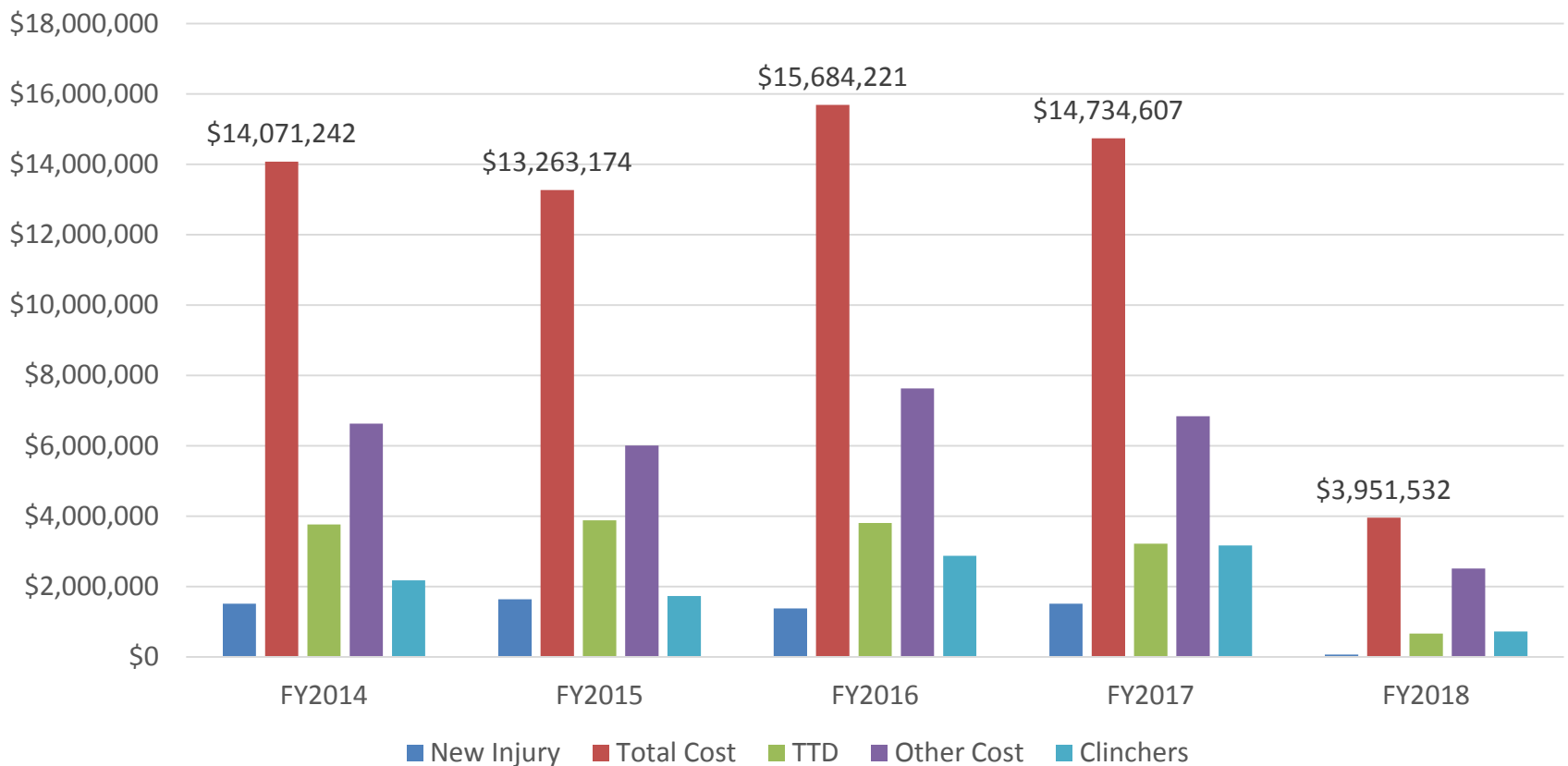
- Provide centralized platform for workers to complete their training
- Track worker training activities

Investigations

- Maintain incident investigation documents in centralized repository

NCDOT Workers' Compensation Costs

NCDOT Direct WC Costs FY 2014 to FY 2018 to date



NCDOT Workers' Compensation Costs as of September 26, 2017

	FY2014	FY2015	FY2016	FY2017	FY2018 To date
New Injury	\$1,507,544	\$1,638,935	\$1,376,374	\$1,511,843	\$66,007
Total Cost	\$14,071,242	\$13,263,174	\$15,684,221	\$14,734,607	\$3,951,532
TTD	\$3,762,128	\$3,882,739	\$3,808,435	\$3,212,234	\$661,566
Other Cost	\$6,631,277	\$6,010,065	\$7,627,218	\$6,841,219	\$2,506,985
Clinchers	\$2,170,293	\$1,731,435	\$2,872,195	\$3,169,311	\$716,974

Safety & Risk Management

- SRM provides safety engineering, administrative, training and consultative services to all departments and units of NCDOT.
- SRM identifies and analyzes accidents, injury and occupational illness-producing conditions and practices; develops accidents and injury prevention methods, procedures and programs; communicates accident and injury information to employees and management; evaluates the effectiveness of the safety program and effects changes as required for optimum results
- SRM manages the claims of NCDOT injured employees to include return to work and incident reduction initiatives.

Operational Risk Management





NORTH CAROLINA

Department of Transportation



Transportation Funding – Continued

Burt Tasaico, PE, State Program Analysis Engineer

September 6, 2017

Current Funding

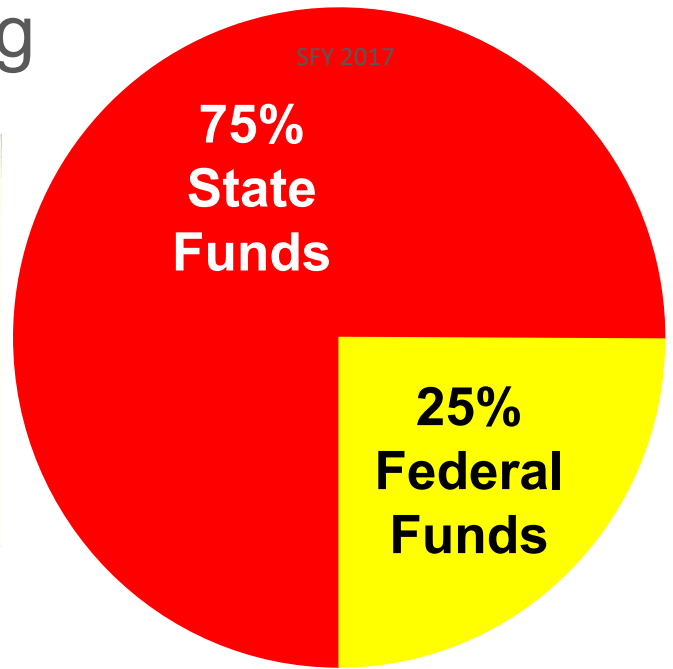
State Funding



Motor Fuel Tax
50%

Highway
Use Tax
20%

Fees
30%



75%
State
Funds

25%
Federal
Funds

Federal Funding (since 2008)



Motor Fuel Tax 70%

Fees
10%

General
Fund* 20%

- No Political Appetite for National Solutions
- Up to States to Fix

*\$143.6 billion since 2008 (through 1/2016)

State Revenue Sources



Motor Fuel Tax
50%

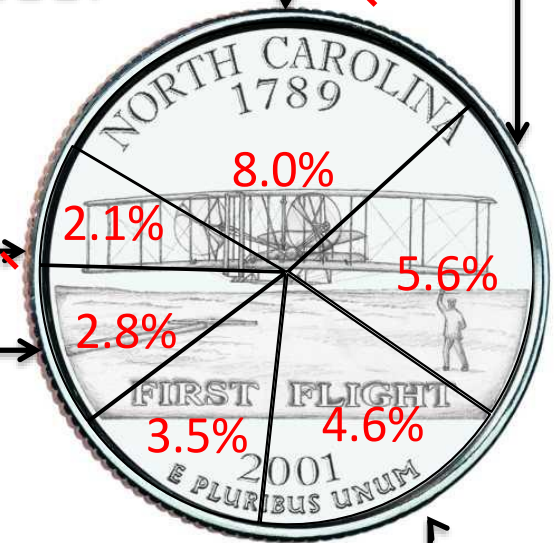
Highway
Use
Tax 20%

Fees
30%

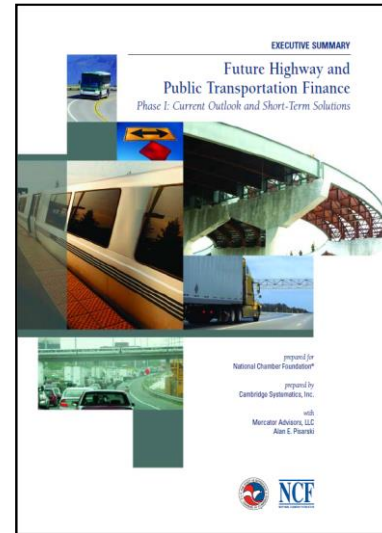
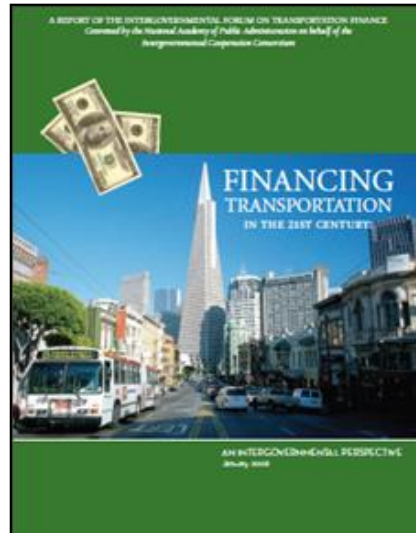
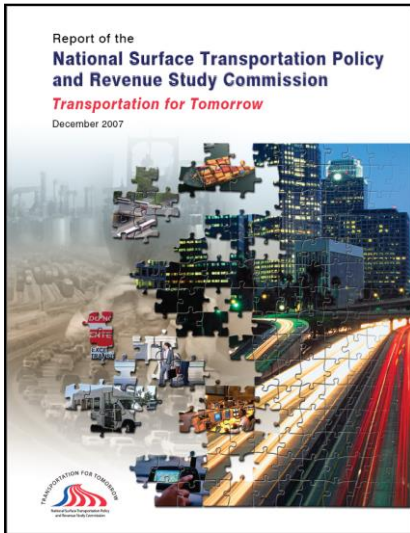
Truck
Registration

Vehicle
Registration

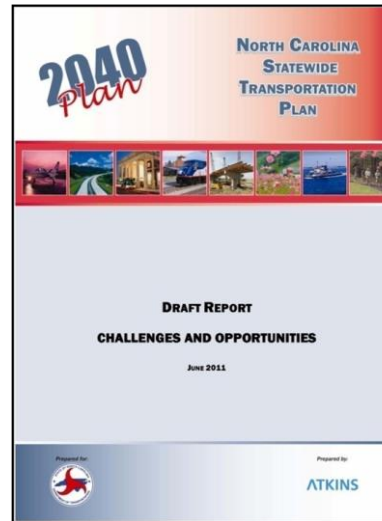
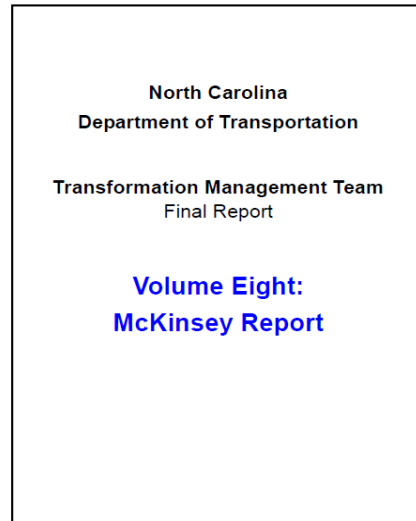
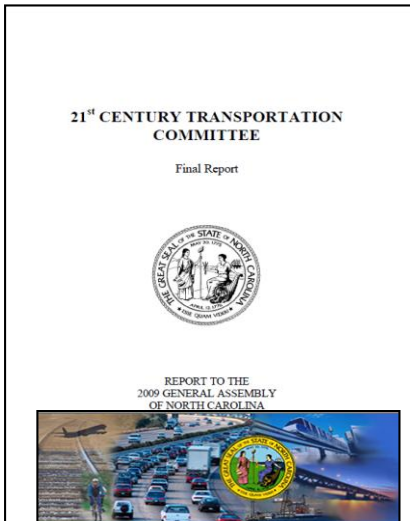
- Other Fees
- International Registration Plan
- Certificate of Title
- Driver Licenses



Previous Revenue Studies



National



State

21st Century Transportation Committee - Recommendations

	Goal: \$1 billion per year for the next 10 years
✓	Eliminate Transfers (HF and HTF)
	Implement VMT (Statewide and Local Option)
✓	Increase Highway Use Tax Rate and Class A & B caps
✓	Increase Passenger Vehicle Registration Fees
✓	Increase Stagger Registration Fees
	Consider Weight based Vehicle Registration Fees
✓	Consider Bond Referendum
✓	Allow Local Option Tax
✓	Implement Indexing DMV Fee Rates Structure
	Implement Statewide Interstate Tolling
	Implement Differential Fuel Tax Rates ✓ Implemented

2040 Plan - Revenue Enhancement Options

	Revenue Option	25 Year Yield (in \$ billions)
✓	Continue motor fuel tax indexing	19
✓	Increase registration/license fees	6
✓	Eliminate Highway Fund transfers	4
	Redirect vehicle lease fee to NCDOT	1
	Increase Highway Use Tax	3
	Local vehicle property tax	1
	Auto insurance surcharge	12
	Wholesale motor fuels tax	12
	Interstate tolling	42
	VMT Fee	27

✓ Implemented

Recent Studies

NC STATE UNIVERSITY

Revenue Enhancement Options Study

Population

Gap

Problem
2013-2040

Transportation
Funding

ITRE

Do we have a crisis?
 Do we need a paradigm shift?
 What are our best options?
 What are our next steps?
 Annotated Bibliography Supplement

Diversifying Revenues to Improve Commerce and Economic Prosperity

Prepared By:
 Institute for Transportation
 Research and Education (ITRE)
 North Carolina State University

Daniel J. Findley, Ph.D., P.E.
 Senior Research Associate

Steve Bert, M.P.P.
 Research Assistant

Adrienne Heller, M.C.R.P.
 Research Assistant

J. Douglas Small
 Research Assistant

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 Research Assistant

Leigh B. Lane, B.S.C.E.
 Senior Research Associate

Prepared For:
 North Carolina Chamber Foundation

ITRE

nc > North Carolina
 Chamber
 Foundation

December 08, 2014

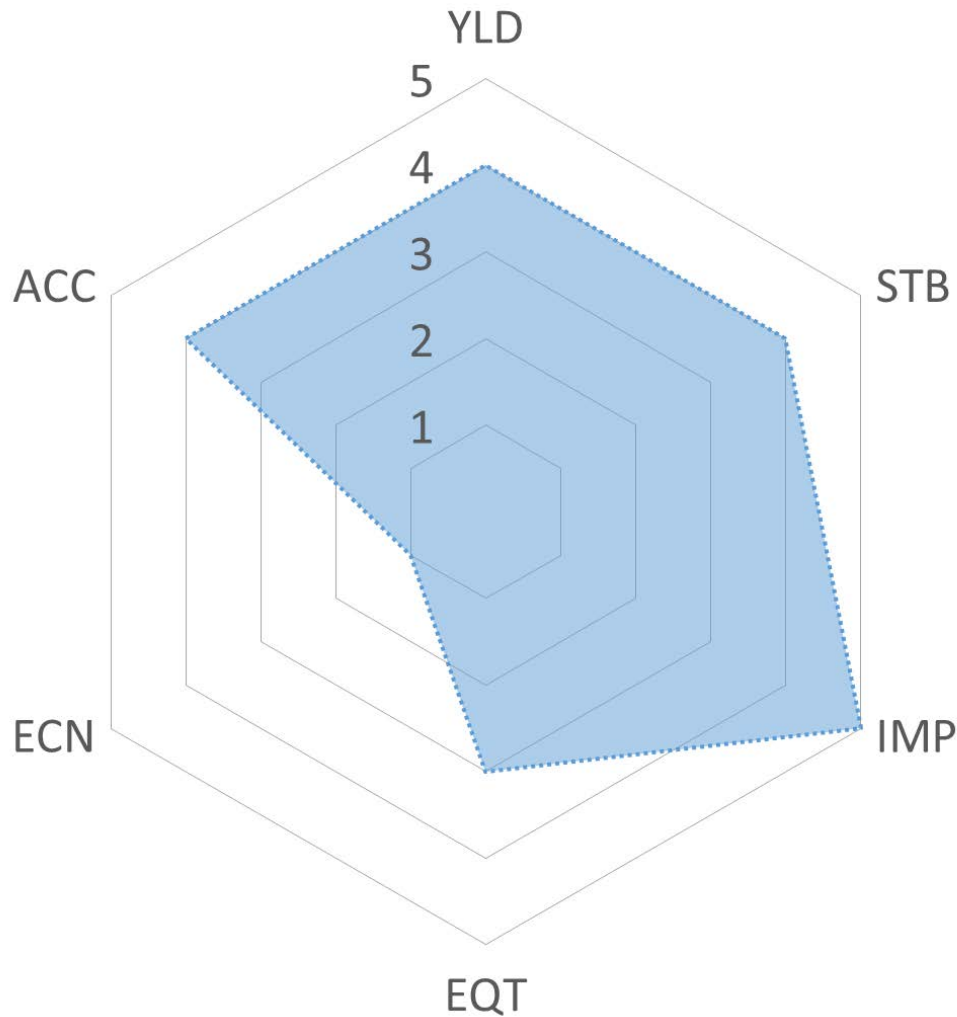
Benefits of Infrastructure Investment
 Infrastructure Spending Impacts
 Annual Driving Expenses
 Criteria for Ranking Revenue Options

Recent Studies – ITRE Revenue Options

16 options for revenue generation in North Carolina:

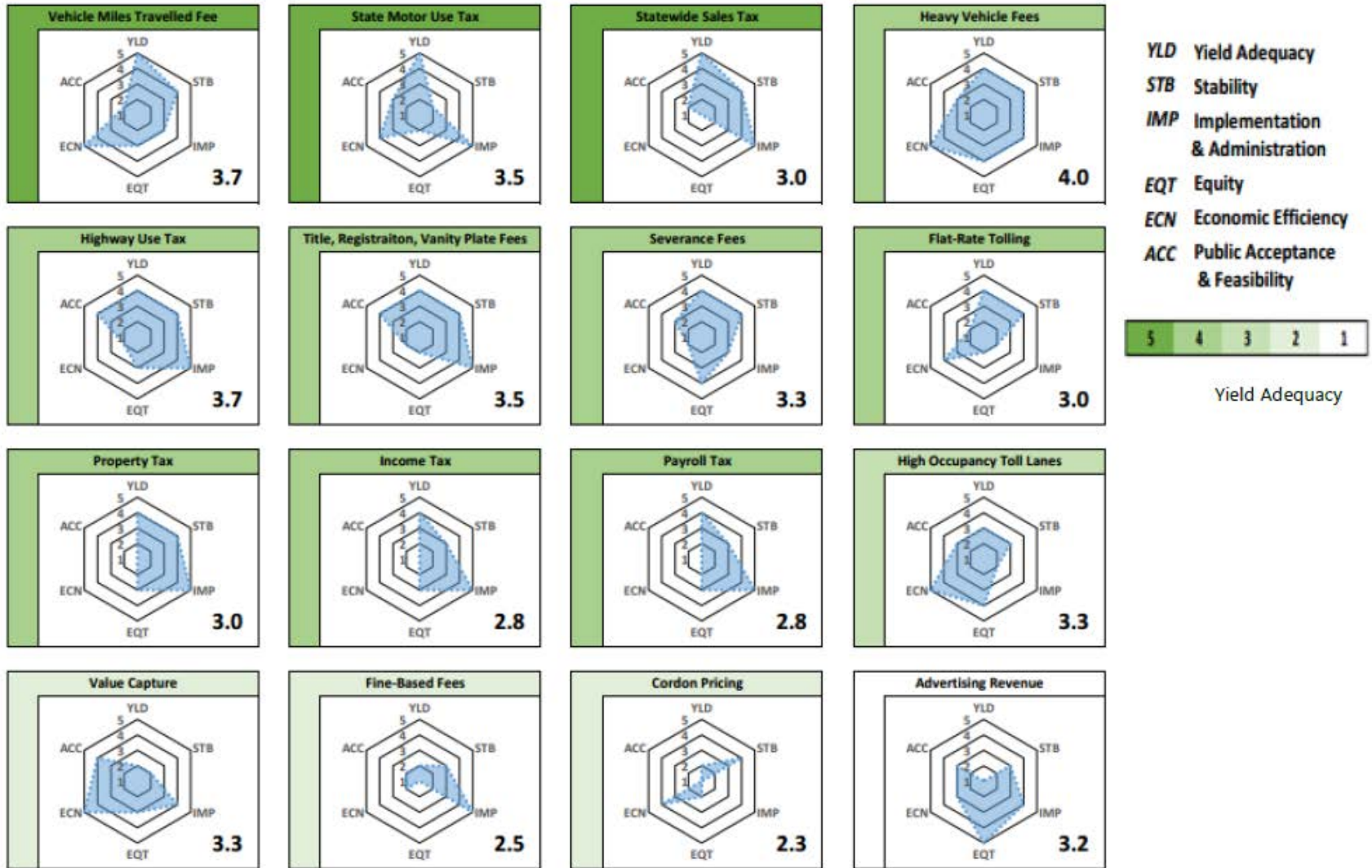
- | | |
|--|---------------------------------|
| • Vehicle Miles Traveled Fee | • High-Occupancy Toll Lanes |
| • Fine-based Fees | • Property Tax |
| • Heavy Vehicle Fees | • Statewide Sales Tax |
| • Severance Fees | • Income Tax |
| • Vehicle Title, Registration, Vanity Plate Fees | • Cordon Pricing (Priced Zones) |
| • Highway Use Tax | • Payroll Tax |
| • State Motor Fuels Tax | • Advertising Revenue |
| • Flat-rate Tolling | • Value Capture |

Recent Studies – ITRE Revenue Ranking Criteria



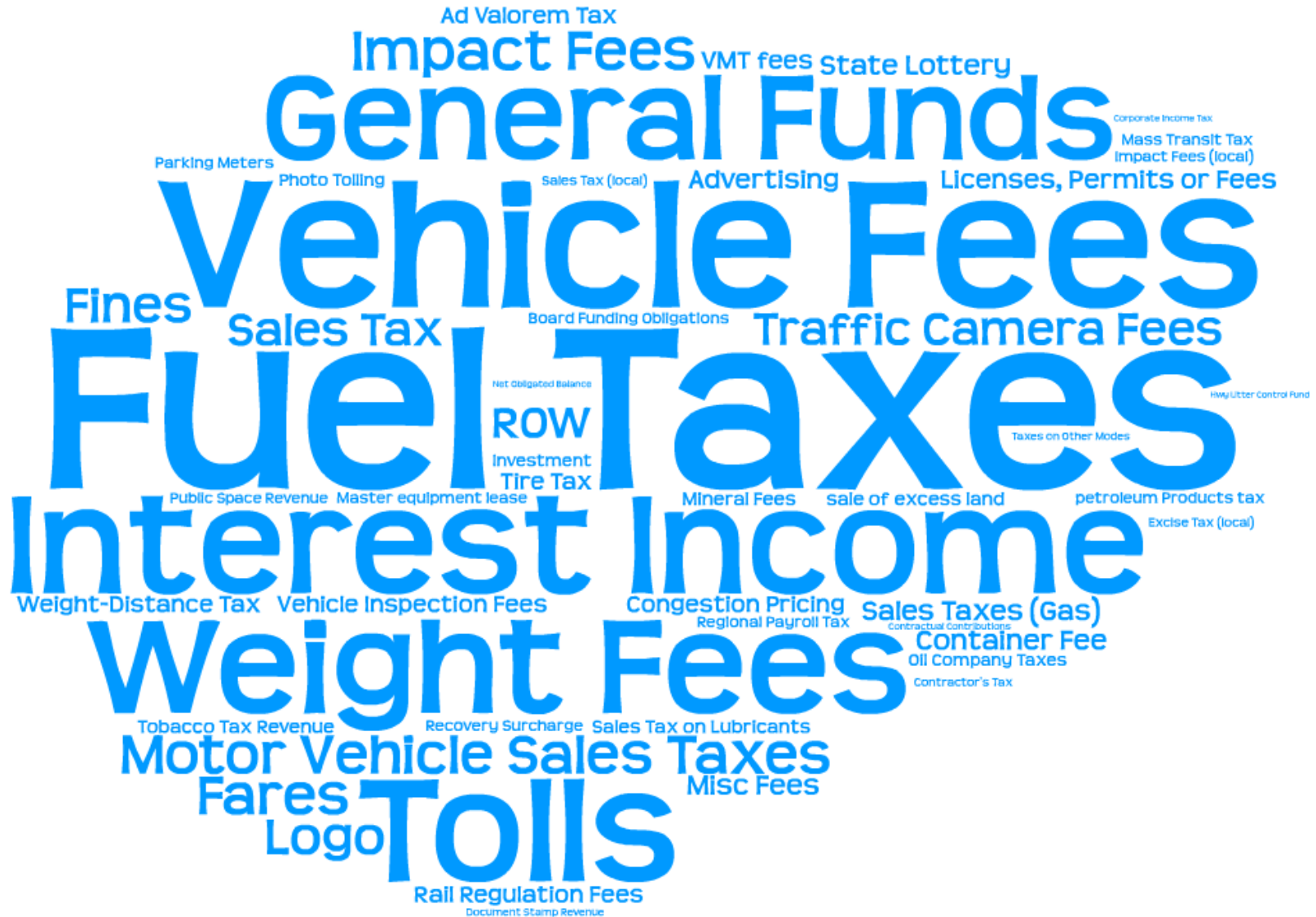
ABR	Criteria
YLD	Yield Adequacy
STB	Stability
IMP	Implementation and Administration
EQT	Equity
ECN	Economic Efficiency
ACC	Public Acceptance and Feasibility
Score	Ranked on 1 to 5 scale

Recent Studies – ITRE Revenue Options Evaluation



Source: Institute for Transportation Research and Education

State Revenue Sources: All



States are Seeking Transportation Funding and Finance

Traditional Funding Options

- Gas taxes
- Other taxes on motor fuels
- Motor vehicle fees
- Tolls

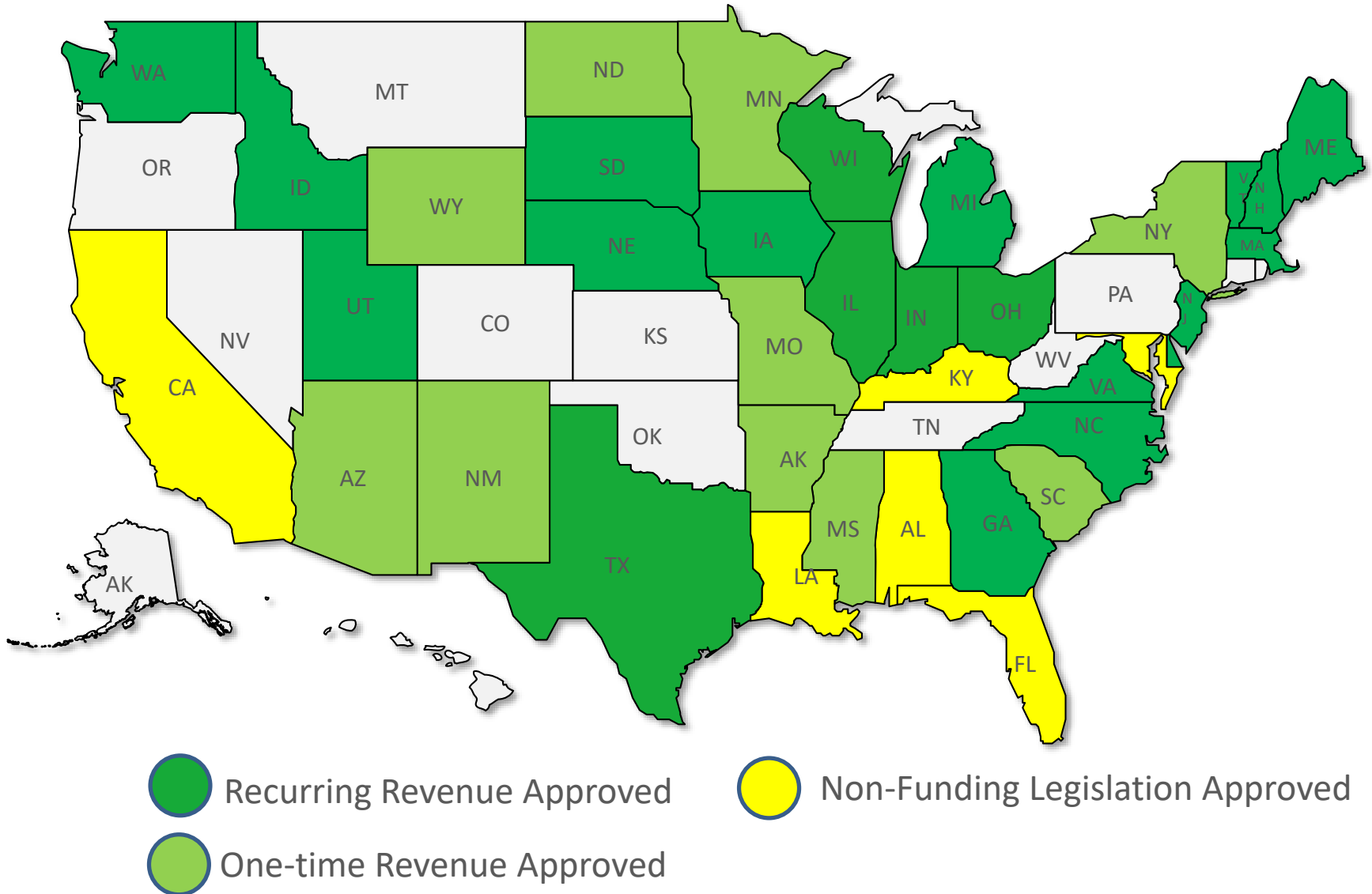
Less Traditional Options

- Distance-based fee
- Taxes on alternative fuels

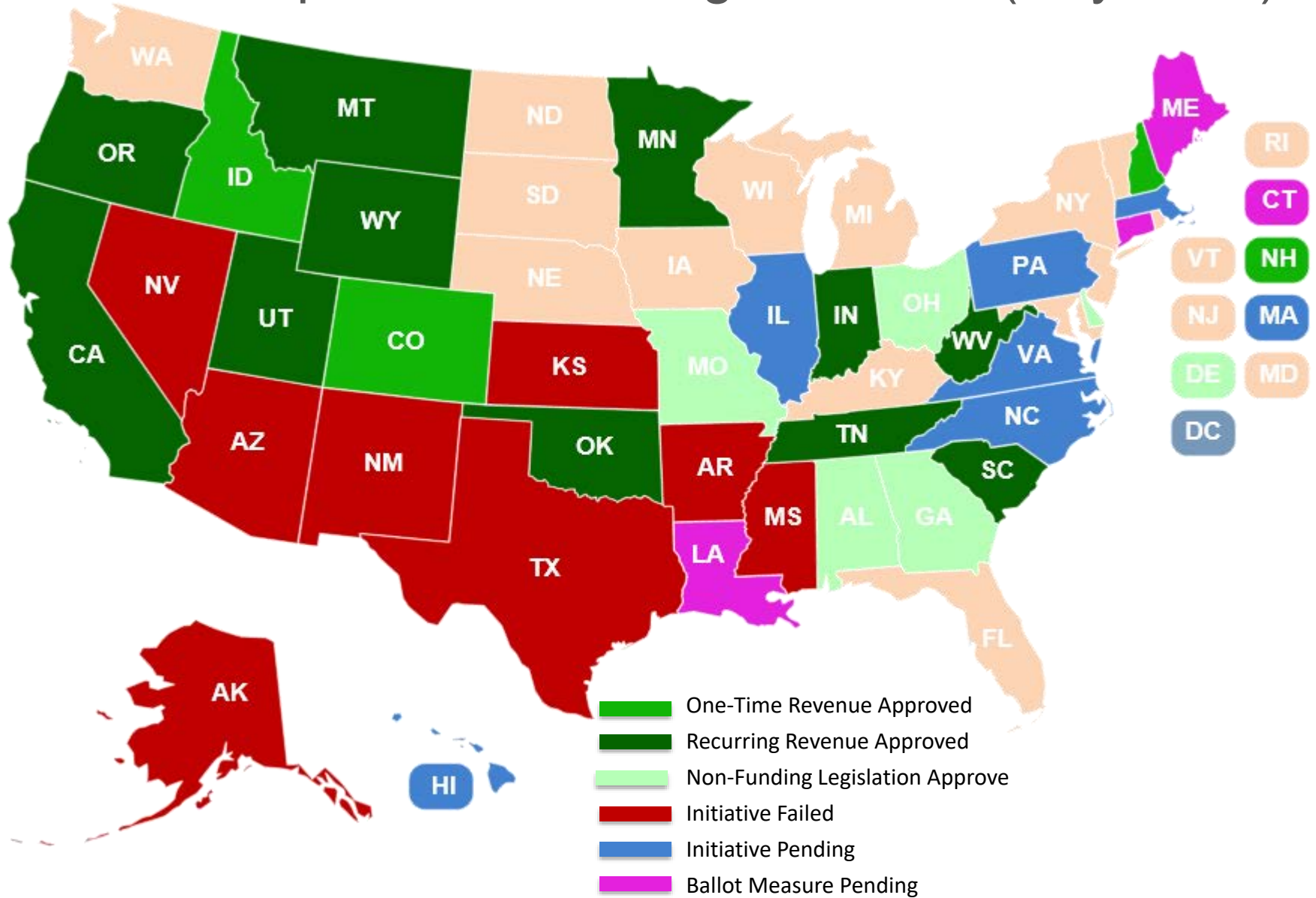
Finance Solutions that borrow against or otherwise leverage revenues

- | | |
|---|--|
| <ul style="list-style-type: none">• Bonds• Federal credit assistance | <ul style="list-style-type: none">• State infrastructure banks• Public-private partnerships |
|---|--|

2014 – 16 State Transportation Funding Initiatives



State Transportation Funding Initiatives (July 2017)

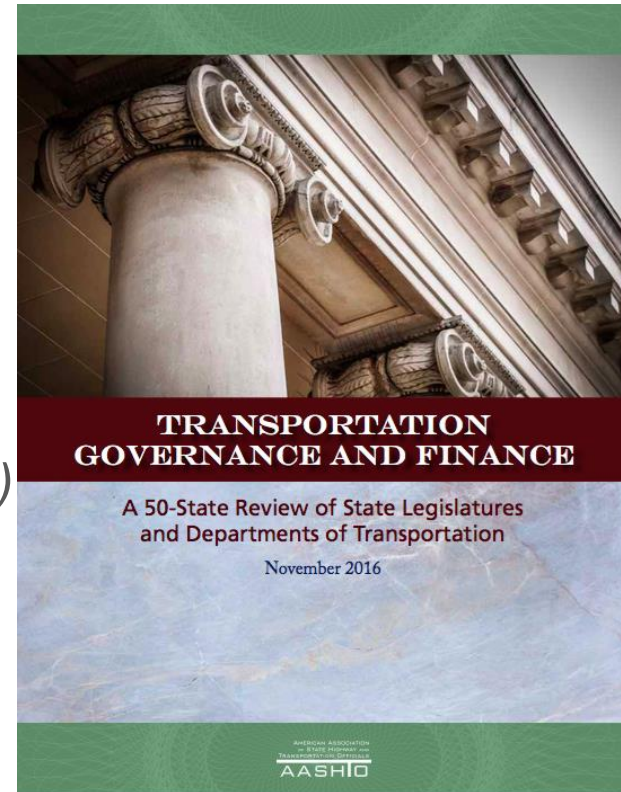


Transportation Revenues Not Collected in NC

- **General Fund** (*Alaska, Arizona, Arkansas, Colorado, Georgia, Hawaii, Idaho, Indiana, Massachusetts, Michigan, Missouri, New York, North Dakota, Oregon, Tennessee, Wisconsin, Wyoming, DC*)
- **Rental Auto sales tax** (*Alaska, Arizona, Colorado, Florida, Hawaii, Iowa, Minnesota, Missouri, New Jersey, New Mexico, New York, South Dakota, Utah, Vermont, Virginia, Washington, West Virginia*)
- **Property Leases or Sales** (*Alaska, California, Colorado, Delaware, Indiana, Oregon, Rhode Island, Washington*)
- **State Sales Tax** (*Arkansas, Kansas, Nebraska, Utah, Virginia, Wisconsin*)
- **Weight-distance tax** (*Kentucky, New Mexico, New York, Oregon*)
- **Fines** (*Connecticut, Minnesota, Maine*)
- **Impact fees** (*Vermont*)
- **Gaming** (*Massachusetts*)
- **Documentary Revenue Stamp** (*Florida*)
- **Casino taxes** (*Mississippi*)

Transportation Revenues Not Collected in NC (Continued)

- **Vehicle-miles travelled tax (pilot)** (*California, Oregon, Minnesota*)
- **Property Rental/Lodging Fees** (*Georgia, Hawaii*)
- **Income Tax** (*Oklahoma*)
- **Tobacco revenue tax** (*Idaho*)
- **Mineral royalties/taxes** (*Wyoming*)
- **Oil/Petroleum tax** (*Mississippi, Nevada, New York, Texas, Puerto Rico*)
- **Locomotive fuel tax** (*Mississippi, Wyoming*)
- **Cap-and-Trade Program Revenues** (*California*)
- **Wholesale Liquor Revenues** (*Maine*)
- **Corporate Income Taxes** (*Maryland*)
- **Aircraft Registration Fees** (*Wisconsin*)



Select Updated Transportation Revenue Potential

Revenue Option	States Where Revenue Option Collected (if applicable)	NC Potential Revenue (Yr)
General Fund	Alaska, Arizona, Arkansas, Colorado, Georgia, Hawaii, Idaho, Indiana, Massachusetts, Michigan, Missouri, New York, North Dakota, Oregon, Tennessee, Wisconsin, Wyoming, DC	Varies
Rental Auto sales tax	Alaska, Arizona, Colorado, Florida, Hawaii, Iowa, Minnesota, Missouri, New Jersey, New Mexico, New York, South Dakota, Utah, Vermont, Virginia, Washington, West Virginia	8% \$65m*
State Sales Tax	Arkansas, Kansas, Nebraska, Utah, Virginia, Wisconsin	1/4% ≈ \$300m
Document Revenue Stamp	Florida	1¢/500 Value \$0.6m*
Aircraft Registration Fees	Wisconsin	\$1 ≈ \$7,000
Property Leases or Sales	Alaska, California, Colorado, Delaware, Indiana, Oregon, Rhode Island, Washington	
Vehicle Property Tax		1¢/100 Value ≈ \$8m*

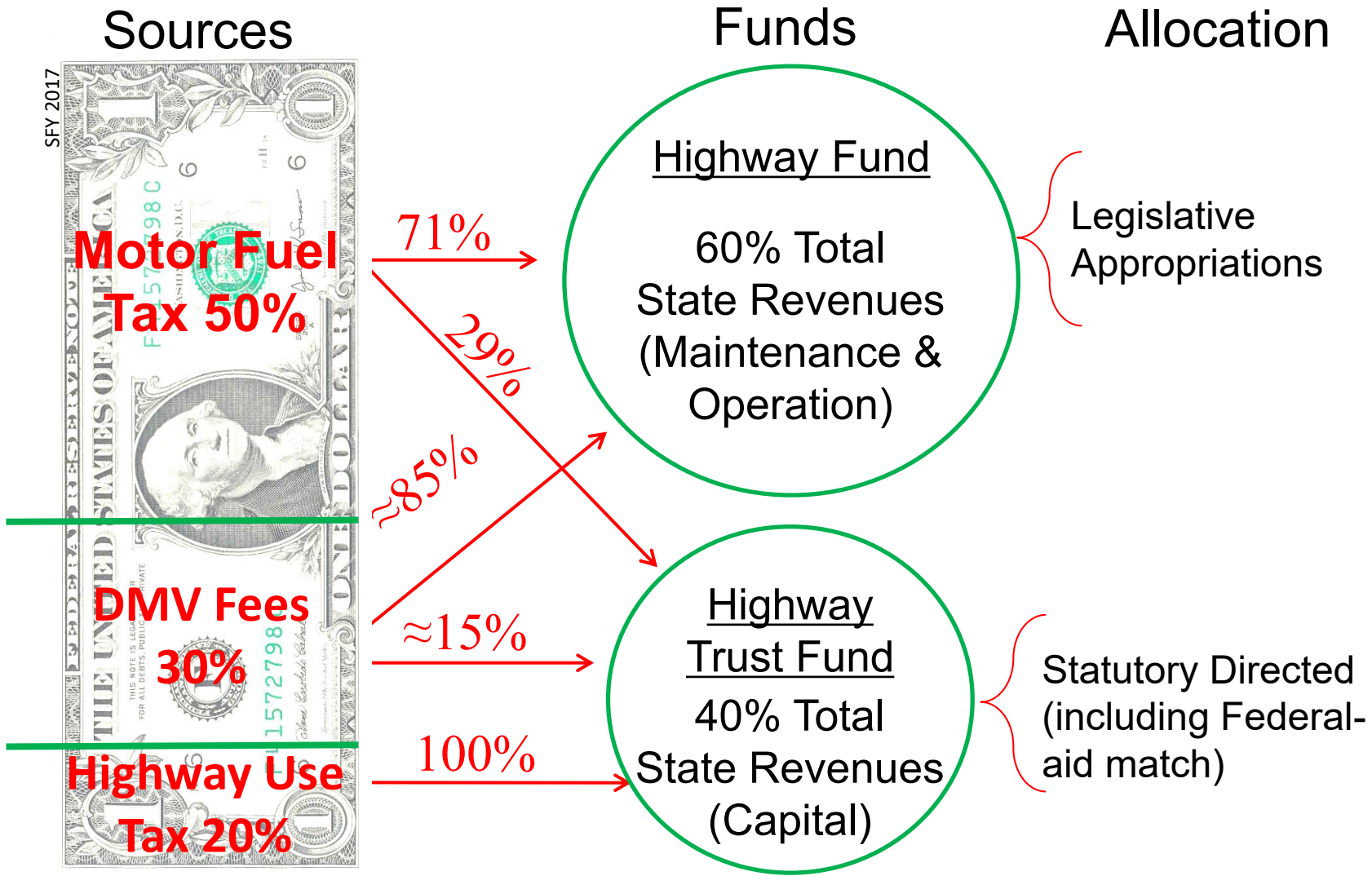
*Revenue Collection in Place

Transportation Revenue Trivia

Existing Revenue Sources	Current Rate	Rate Change	Annual Revenue Generation (\$M)	Estimated Annual Cost to Average User
Gasoline Motor Fuel Tax	34.3 cpg	1 cent	45.0	7.50
Diesel Motor Fuel Tax	34.3 cpg	1 cent	10.0	100.00
Driver License	\$5.00/yr	\$1.00/yr	7.0	1.00
License Plate	\$36.00/yr	\$1.00/yr	7.0	1.00
Highway Use Tax (HUT) – rate	3%	1%	250.0	50.00*
HUT – Out of State cap	250	None	0.2	200.00*
HUT - >26,000 pound vehicles	2,000	3,000	10.0	1,000.00*
HUT - >26,000 pound vehicles	2,000	None	20.0	1,600.00*
HUT – short term leases**	8%		65.0	**
Auto Repair/parts sales taxes**	4.75%		365.0	**

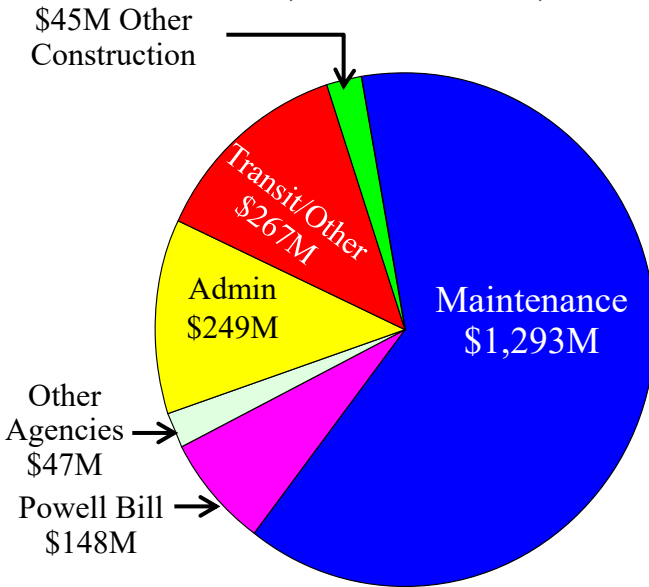
* User Cost Shown in for one time ** Deposited in the General Fund

Sources, Funds, Allocation and Distribution



Sources, Funds, Allocation & Distribution (Cont.)

Highway Fund



Maintenance

65% Inventory (lane miles & bridge Deck Area)
+ 35% Needs (Condition Assessments and Non-Assessed)

Pavement Treatments

65% Inventory (lane miles)
+ 35% Needs (Pavement Condition Survey)

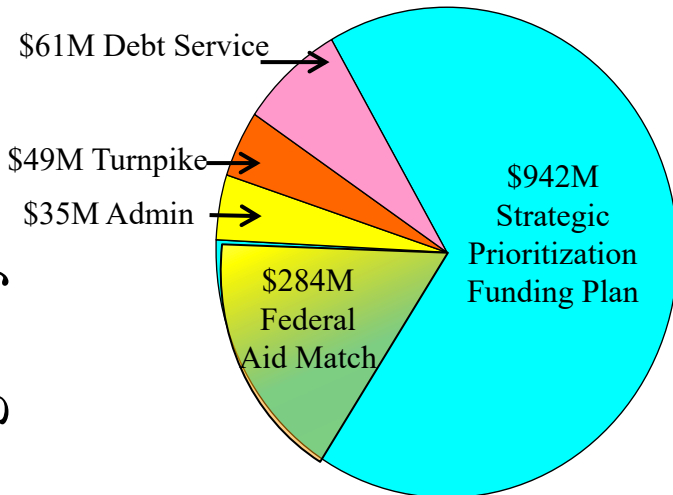
Bridges

Uniform Amount + Needs

Powell Bill

75% Population + 25% Mileage

Highway Trust Fund



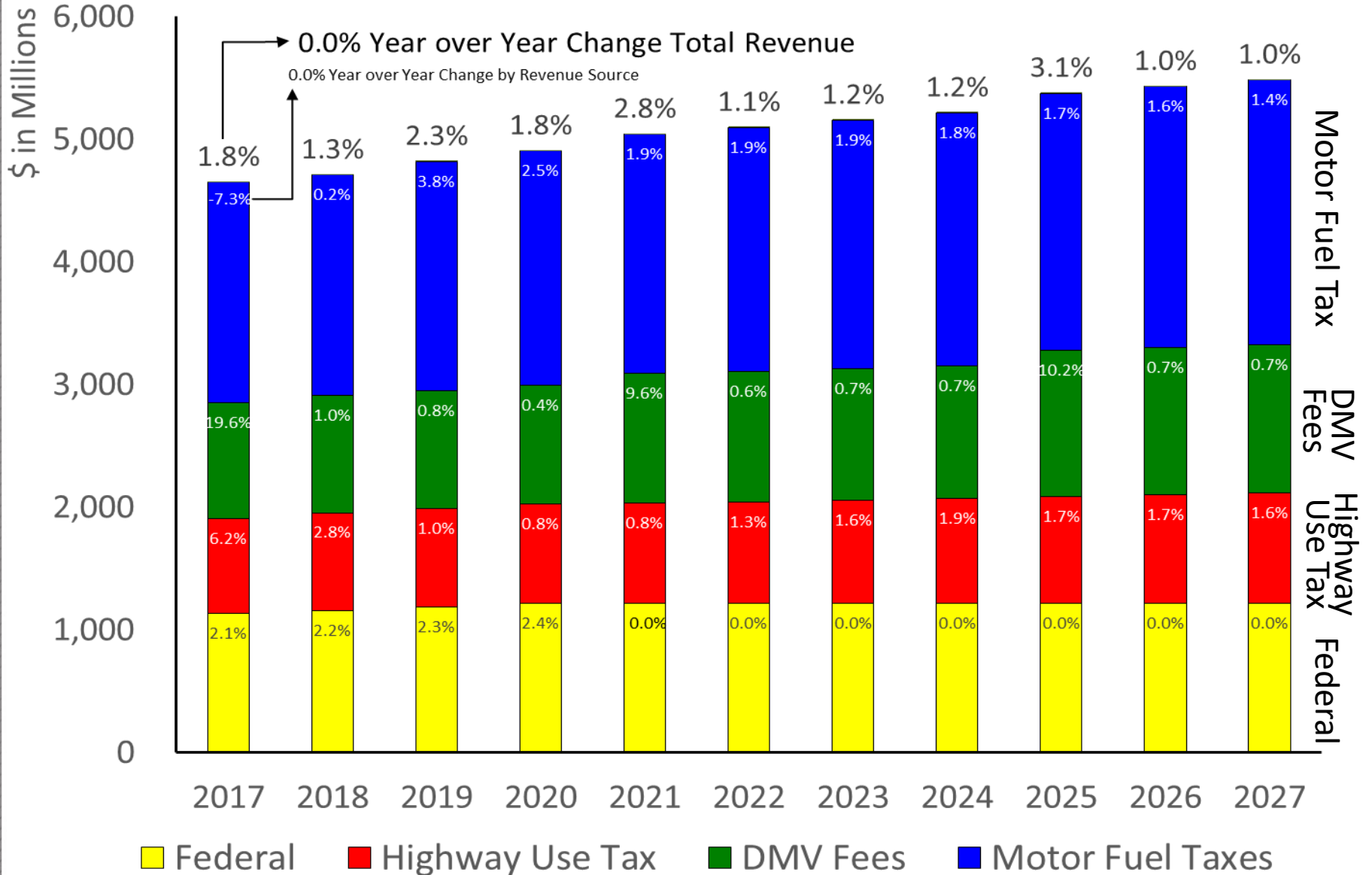
Strategic Transportation Initiative

- Statewide 100% Quantitative
- Regional 70% Quantitative/30% Local Input
- Division 50% Quantitative/50% Local Input

Quantitative Data (all or some)

- Benefit-Cost
- Congestion
- Economic Comp.
- Safety
- Freight
- Multimodal
- Pavement Condition
- Lane Width
- Shoulder Width
- Accessibility and connectivity

10 Year Revenue Forecast – State and Federal Sources



FAST Act – Funding Alternatives Program

- Created a program in U.S. Section 23-503(b) to provide grants that:
 - Demonstrate user-based alternative revenue mechanisms
 - Utilize user fee structure, such as tolling or vehicle miles travelled
 - Help maintain future long-term solvency of the Federal Highway Trust Fund

- Program Goals:

Implementation, Interoperability, Public Acceptance and Hurdles	Use of Independent and Private Third Parties
Privacy Protection	Congestion Mitigation Impacts
Equity Concerns	Ease of User Compliance
Technology Reliability and Security	Flexibility of User Choice
Cost of System Administration	Auditing, Compliance/Enforcement

- Funding
 - \$15 million in FFY 16
 - \$20 million annually from FFY 2017 through FFY 2020
 - 50% Cost Sharing

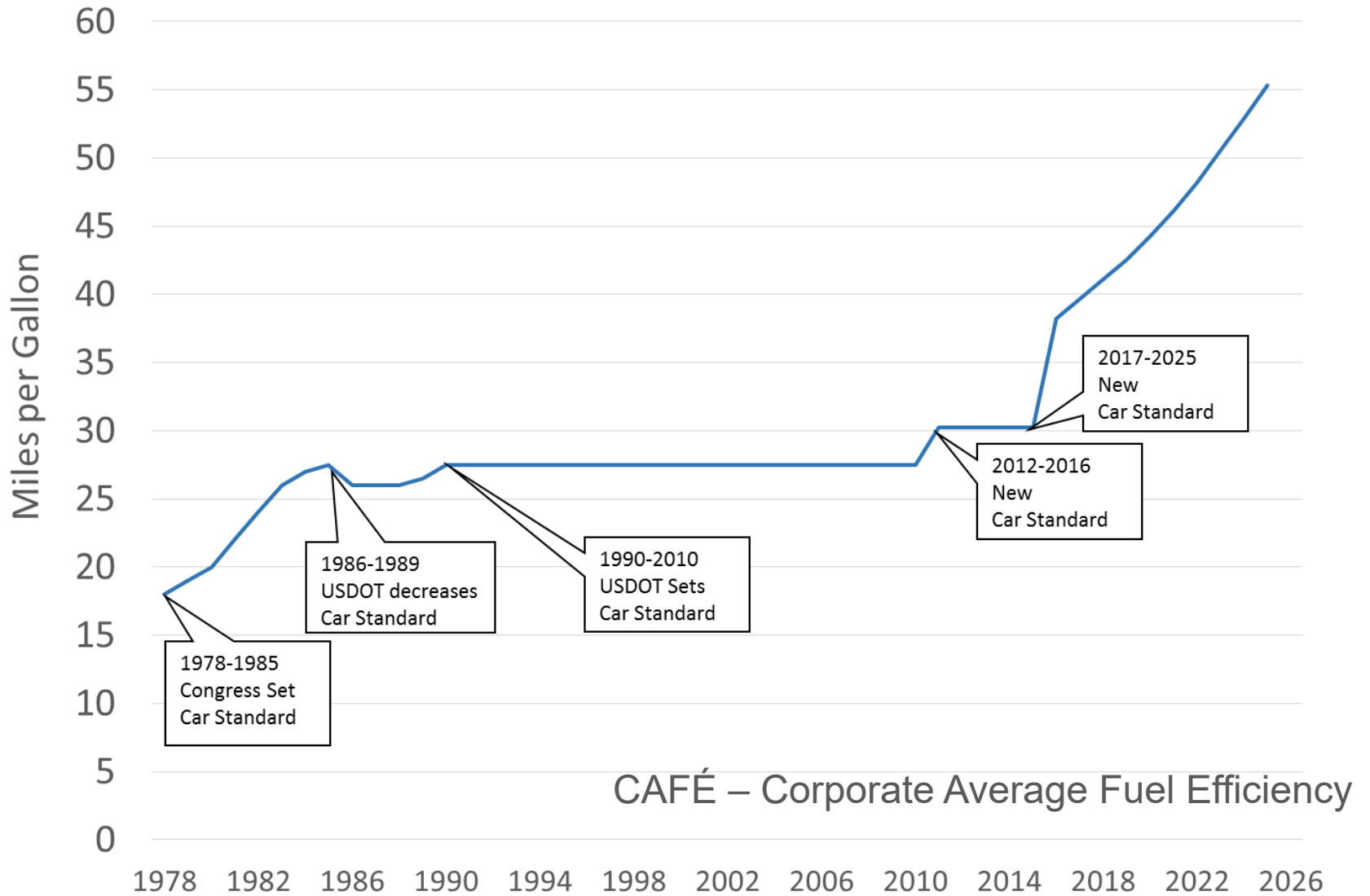
FAST Act – Funding Alternatives Program

FFY 2016 Selections (\$14.3 million)

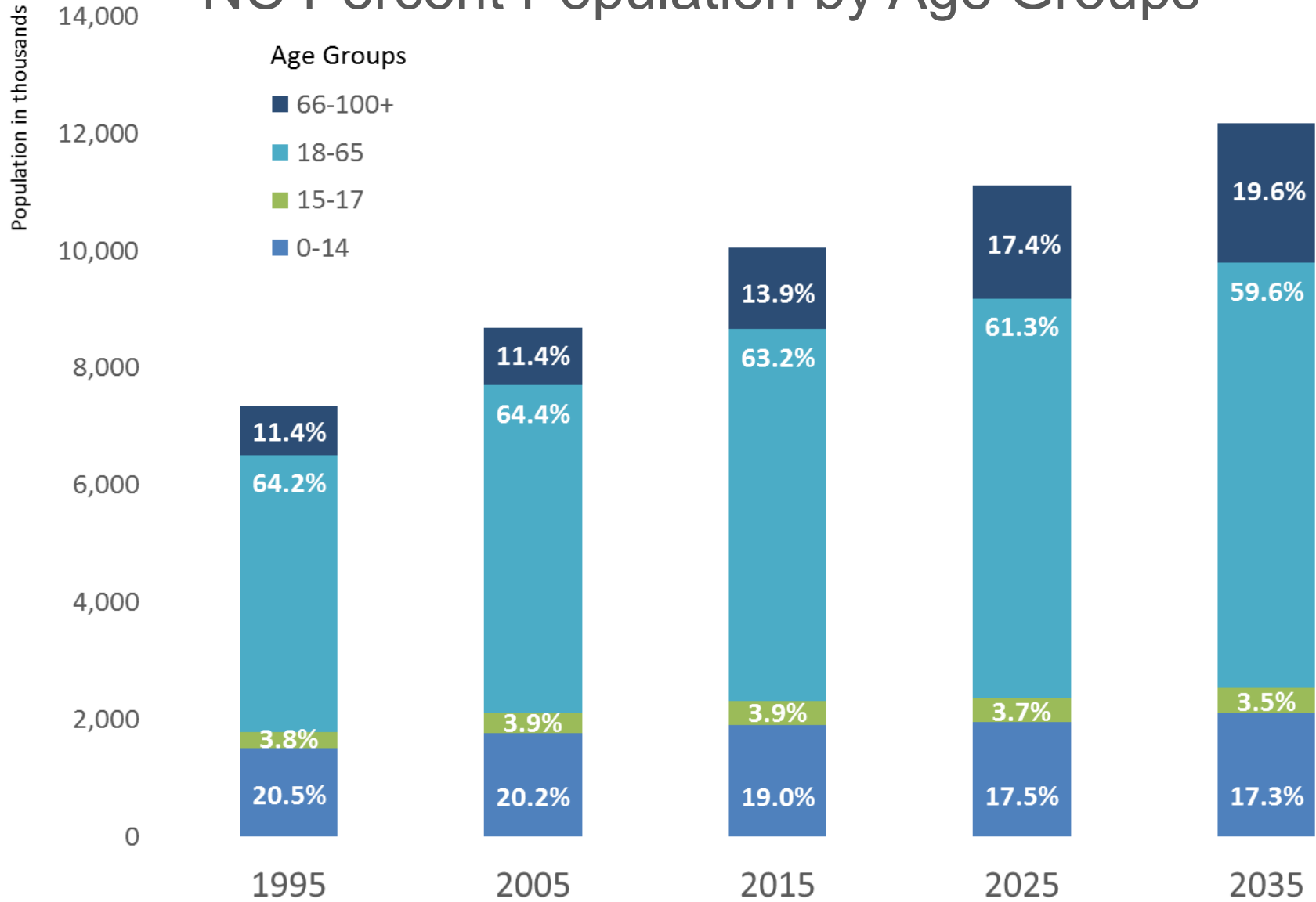
State	Project	Funding (\$ in thousands)
California	Pay at the Pump	750
Delaware	On Board Mileage Counter	1,490
Hawaii	Inspection Station Odometer Reading	3,998
Minnesota	Collection by Mobility as a Service Provider	300
Missouri	Registration Fee Based on Estimated Miles/Gallon	250
Oregon	Improvements to Existing Program	2,100
Oregon	Interoperability with Western Road User Charge Consortium	1,500
Washington	Interoperability of Various Collection Systems	3,847

Note: There are pilot programs in California, Oregon and Minnesota

Federal Vehicle Standards (CAFÉ) – Passenger Vehicle



NC Percent Population by Age Groups



Projection – Autonomous Vehicle Deployment

Stage	Decade	Vehicle Sales	Vehicle Fleet	Vehicle Travel
Available – large price premium	2020s	2-5%	1-2%	1-4%
Available - moderate price premium	2030s	20-40%	10-20%	10-30%
Available – minimal price premium	2040s	40-60%	20-40%	30-50%
Standard - included on most new vehicles	2050s	80-100%	40-60%	50-80%
Saturation (everybody who wants it has it)	2060s	?	?	?
Required – on all new and operating vehicles	???	100%	100%	100%

Projection – Vehicle Ownership Articles

Article	Date
<u>Demographic Shifts: Shaping the Future of Car Ownership</u>	2/2017
<u>Goodbye car ownership, hello clean air: welcome to the future of</u>	12/2016
<u>The future of car ownership that no one is talking about</u>	7/2016
<u>Fewer car owners and more driverless vehicles in future, survey reveals</u>	1/2017
<u>Peak Car Ownership is near – beginning of the fall of car ownership ...</u>	3/2017
<u>Cars 2025</u>	
<u>Driverless vehicles: The future of car ownership is Pay-As-You-Go ...</u>	2/2017
<u>Could Self-Driving Cars Spell the End of Ownership?</u>	12/2015
<u>Silicon Valley vs. Detroit: The Future of Car Ownership</u>	3/2017

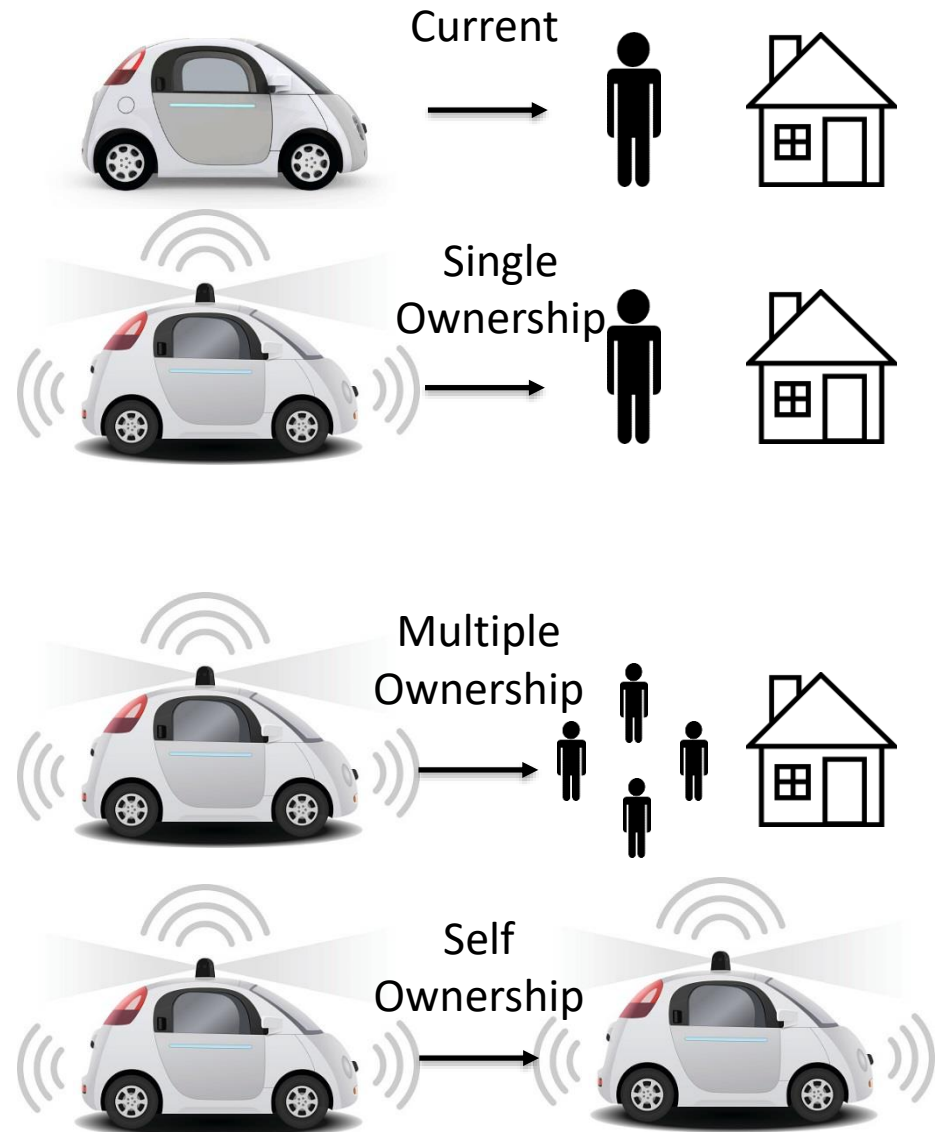
Projection – Autonomous/Vehicle Ownership

The Car - will grow smarter and more efficient, with high-efficient engines, lighter materials and autonomous driving vehicles

The Industry – will evolve with new competition from tech companies, and suppliers capable of producing high-tech parts at low prices

The Driver – will look at cars differently sharing cars and using them as a space to consume media and make calls

Transportation Funding Model – will have to evolve in anticipation of the change



Summary

Knowledge of current revenues sources

Needs exceed current revenue model projections

Current revenue model not sustainable

Future Path

Questions



HIGHWAYS COMMITTEE MEETING MINUTES

DATE: 9-6-2017 TIME: 2:20 PM – 3:40 PM LOCATION: Room 150

MEETING CALLED BY	Chairman Tarleton
BOARD ATTENDEES	Committee: Chairman Cullie Tarleton, Vice-Chairman John Pope, Landon Zimmer, Gus Tulloss, Terry Hutchens, Patrick Molamphy, Michael Wells, Jack Debnam

AGENDA TOPICS

1. APPROVAL OF JULY MINUTES	
DISCUSSION SUMMARY	Motion to approve made by Board Member Tulloss, seconded by Board Member Pope.
ACTIONS TAKEN	Motion to approve minutes as written passed unanimously.
2. SEVERE WEATHER PREPAREDNESS – EMILY MCGRAW, P. E., STATE MAINTENANCE OPERATIONS ENGINEER	
DISCUSSION SUMMARY	<p>NCDOT's State Maintenance Operations Engineer, Mrs. Emily McGraw, provided a presentation on "Severe Weather Preparedness." She discussed the types of severe weather in North Carolina for which the Department prepares including: hurricanes, winter weather precipitation, tornadoes, and heavy rains that may cause mudslides and rockslides. Declared weather events, which are larger disasters, will have federal reimbursements following the FEMA Public Assistance Program and FHWA Emergency Relief Program. Non-declared events, which are smaller and localized, use state funding. The Department's Disaster Preparedness includes Training, Communication and Activation. Training provided by NCDOT includes Disaster Refreshers related to Fiscal Recovery, Tabletop Exercises, FEMA & FHWA Documentation Training, Annual Snow and Ice Training, Intra-agency Exercises, and "Dry Run" scenarios. Lessons learned are also reviewed with personnel. During a storm event, the Department promotes open internal cross division communications, as well as communications with other State Agencies, Local Government, State Emergency Response Team, and the National Weather Service to keep our staff and citizens safe. The Department employs internal communication tools like NCDOT Disaster Event Reporting which shows up-to-date information on preparation and response during active severe weather events. This tool also allows the Department to publish detailed information such as how many active personnel assisted in the event, the number of operating trucks/contract trucks, and additional information pertinent to the storm. The Department also utilizes external communication tools including TIMS (Traveler Information Management System), 511 and call centers to share travel information with the public. NCDOT has established "Sister" Divisions, where divisions are paired with another division(s) across the state in order to share resources during an event. Typically, with weather events in North Carolina, one area of the state is affected more than another area of the state. For instance, a hurricane may affect the eastern half of the state more than the western half. Western divisions may share their resources to help with the clean-up efforts of their sister divisions in the eastern part of the state. The discussion included updating Members of the Board regarding the emergency preparedness meetings. Members will receive briefings from the emergency preparedness meetings.</p>
ACTIONS TAKEN	N/A



HIGHWAYS COMMITTEE MEETING MINUTES

3. NCDOT TRUCK PARKING STUDY – CHARLES EDWARDS, DIRECTOR STRATEGIC PLANNING / LOGISTICS	
DISCUSSION SUMMARY	In response to a request from the Legislature to study North Carolina's truck parking facilities and demand analysis, the NCDOT undertook a 3 month statewide truck parking study that was completed in December 2016 and submitted to Legislature February 2017. The purposes of the study were to conduct an analysis of the adequacy of truck parking facilities and truck parking spaces in the State of North Carolina. Results of the study indicate that 85% of the 4,783 spaces in North Carolina are privately owned, and 15% are publicly owned. The study reviewed the top ten parking locations in North Carolina, finding that the facilities located along I-77 in Mt. Airy and Statesville, and along I-40 in Mocksville show a deficit of available truck parking spaces. The highest demand for truck parking occurs between 7:00 pm and Midnight. Study participants indicated that it is harder to find truck parking spaces in North Carolina than Georgia, South Carolina, Tennessee or Virginia. Opportunities and recommendations from the study include: partnering with truck travel centers to expand facilities, trial truck parking at selected weigh stations, utilizing weigh station technology to communicate truck parking, partnering with other states to promote truck parking detection systems, and coordinating with MPOs to develop mitigation strategies for public opposition to truck parking. The discussion included the anticipated increased need for spaces due to the compliance with the electronic logging devices that truck drivers are federally mandated to use effective in December 2017.
ACTIONS TAKEN	N/A

4. SUPERSTREETS IN NORTH CAROLINA – JIM DUNLOP, P. E., CONGESTION MANAGEMENT ENGINEER	
DISCUSSION SUMMARY	Mr. Jim Dunlop, Congestion Management Engineer, provided a presentation on the utilization of “Superstreet” designs in North Carolina . “Superstreets” are a type of intersection which leaves the main movement of traffic as is. Side street through and left traffic movements are redirected to turn right, and then make a U-turn to proceed in the desired direction. Advantages to Superstreet designs include improved safety, reduced delay to main street traffic, better ability to coordinate signals for improved traffic flow, and improved pedestrian movements. Signal phases are reduced to two phases, allowing more “green” time to the main street movement . The signals affect only one direction of main street travel. Overall, where Superstreet designs have been implemented, crashes have been reduced by up to 46%. Injury and fatal crashes are reduced by 22 to 63%.
ACTIONS TAKEN	N/A



HIGHWAYS COMMITTEE AGENDA

BOARD OF TRANSPORTATION OCTOBER 4, 2017

TIME: 2:10 PM – 3:30 PM

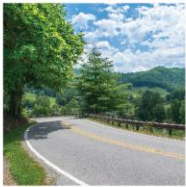
LOCATION: 150

TOPIC	PRESENTER	TIME
Call to Order Roll Call Declaration of Quorum Approval of September 6, 2017 Meeting Minutes	Cullie Tarleton, Chair	2:10 pm
US 221 Projects in Ashe and Watauga Counties	Michael Pettyjohn, P. E., Division Engineer, Division 11	2:15 pm
NCDOT's Utilization of Ramp Metering	Joey Hopkins, P. E., Division Engineer, Division 5	2:35 pm
Preparing for Autonomous Vehicles – Pavement Markings	J. Kevin Lacy, P. E., State Traffic Engineer, Transportation Mobility and Safety	2:55 pm
Study Fee Structure for Services Performed by the Division of Highways	Patrick Norman, P. E., Director of Highway Operations	3:15 pm
Other Discussion	Cullie Tarleton, Chair	3:20 pm
Adjourn	All	3:30 pm



NORTH CAROLINA

Department of Transportation



Preparing for Autonomous Vehicles – Pavement Markings

Kevin Lacy, PE, State Traffic Engineer

October 4, 2017

Outline

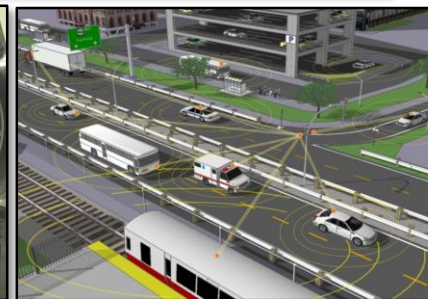
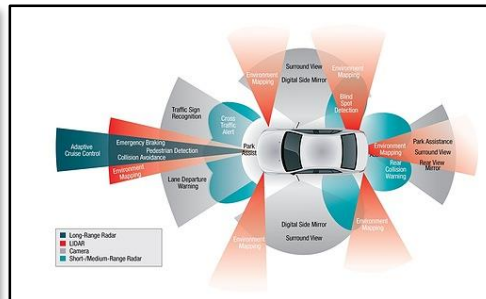
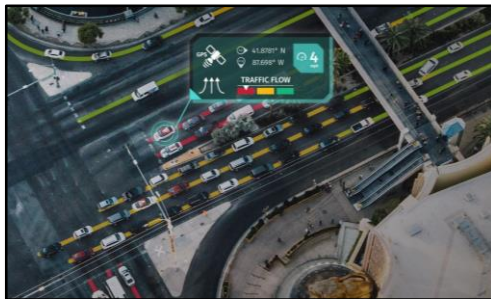
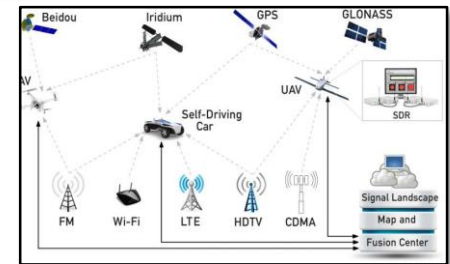
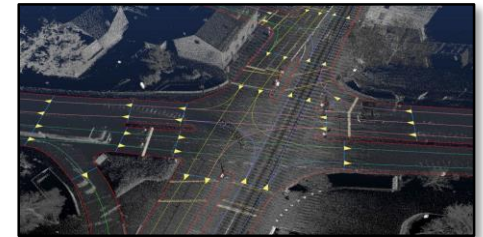
- Autonomous Vehicle Navigation Technology
- Marking Standards (Federal and State)
- Pavement Marking Audits
- Maintenance of Pavement Marking
- Current Efforts
- Are We Ready

Potential Navigation Technology for Autonomous Vehicles

- High Resolution Mapping

- **Machine Vision: LIDAR, cameras, sensors, etc.**

- GPS and other signals
- Road Fingerprinting
- Crowd Sourcing
- Connected AV Infrastructure



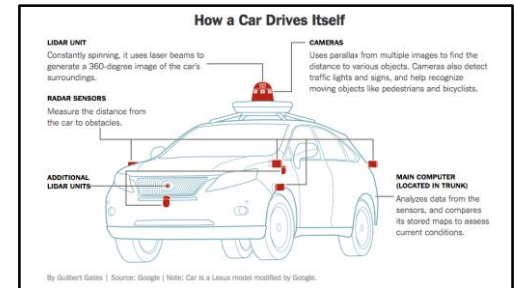
“Machine Vision”

- NCHRP 20-102: Impacts of Connected Vehicles and Automated Vehicles on State and Local Transportation Agencies

- Task Order:20-102(06) [Road Markings for Machine Vision](#)

- Phase I: Final staffing for release
- Phase II: Testing in 2018

- Develop minimum performance levels for pavement markings (retroreflectivity)
- Uses LIDAR / Camera system (forward facing)
- Study center, lane and edge lines, no-passing zone
- Tests in wet, dry, day and night conditions; types of markings, recessed, temporary, pavement uniformity, vehicle speed, and other impacts



	Daytime										Nighttime									
1.0M White	2.50	1.00	2.00	2.33	1.00	2.42	2.00	2.00	2.50	2.33	2.07	2.50	2.42	2.75	2.75	2.00	1.00			
1.5M White	2.17	2.33	1.83	2.17	2.47	2.47	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00			
1.8M White	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00			
1.5M Yellow	2.00	2.00	2.00	2.17	1.83	2.00	1.83	2.00	1.83	2.00	1.83	2.00	1.83	2.00	1.83	2.00	2.00			
1.8M Yellow	2.17	2.17	2.17	2.17	2.17	2.17	2.17	2.17	2.17	2.17	2.17	2.17	2.17	2.17	2.17	2.17	2.17			
2.0M White	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.75			
2.0M Yellow	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40			
2.5M White	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40			
2.5M Yellow	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40			
3.0M White	2.47	2.47	2.47	2.47	2.47	2.47	2.47	2.47	2.47	2.47	2.47	2.47	2.47	2.47	2.47	2.47	2.47			
3.0M Yellow	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40			
4.0M White	2.47	2.47	2.47	2.47	2.47	2.47	2.47	2.47	2.47	2.47	2.47	2.47	2.47	2.47	2.47	2.47	2.47			
4.0M Yellow	2.47	2.47	2.47	2.47	2.47	2.47	2.47	2.47	2.47	2.47	2.47	2.47	2.47	2.47	2.47	2.47	2.47			
4.5M White	2.17	2.17	2.17	2.17	2.17	2.17	2.17	2.17	2.17	2.17	2.17	2.17	2.17	2.17	2.17	2.17	2.17			
4.5M Yellow	2.40	2.40	2.47	2.47	2.47	2.47	2.47	2.47	2.47	2.47	2.47	2.47	2.47	2.47	2.47	2.47	2.47			
4.8M White	2.40	2.40	2.47	2.47	2.47	2.47	2.47	2.47	2.47	2.47	2.47	2.47	2.47	2.47	2.47	2.47	2.47			
4.8M Yellow	2.40	2.40	2.47	2.47	2.47	2.47	2.47	2.47	2.47	2.47	2.47	2.47	2.47	2.47	2.47	2.47	2.47			
5.0M White	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.75			
5.0M Yellow	2.40	2.40	2.47	2.47	2.47	2.47	2.47	2.47	2.47	2.47	2.47	2.47	2.47	2.47	2.47	2.47	2.47			
5.5M White	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40			
5.5M Yellow	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40			
6.0M White	2.47	2.47	2.47	2.47	2.47	2.47	2.47	2.47	2.47	2.47	2.47	2.47	2.47	2.47	2.47	2.47	2.47			
6.0M Yellow	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40			
6.5M White	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40			
6.5M Yellow	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40			
7.0M White	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50			
7.0M Yellow	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40			
7.5M White	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40			
7.5M Yellow	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40			
8.0M White	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40			
8.0M Yellow	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40			



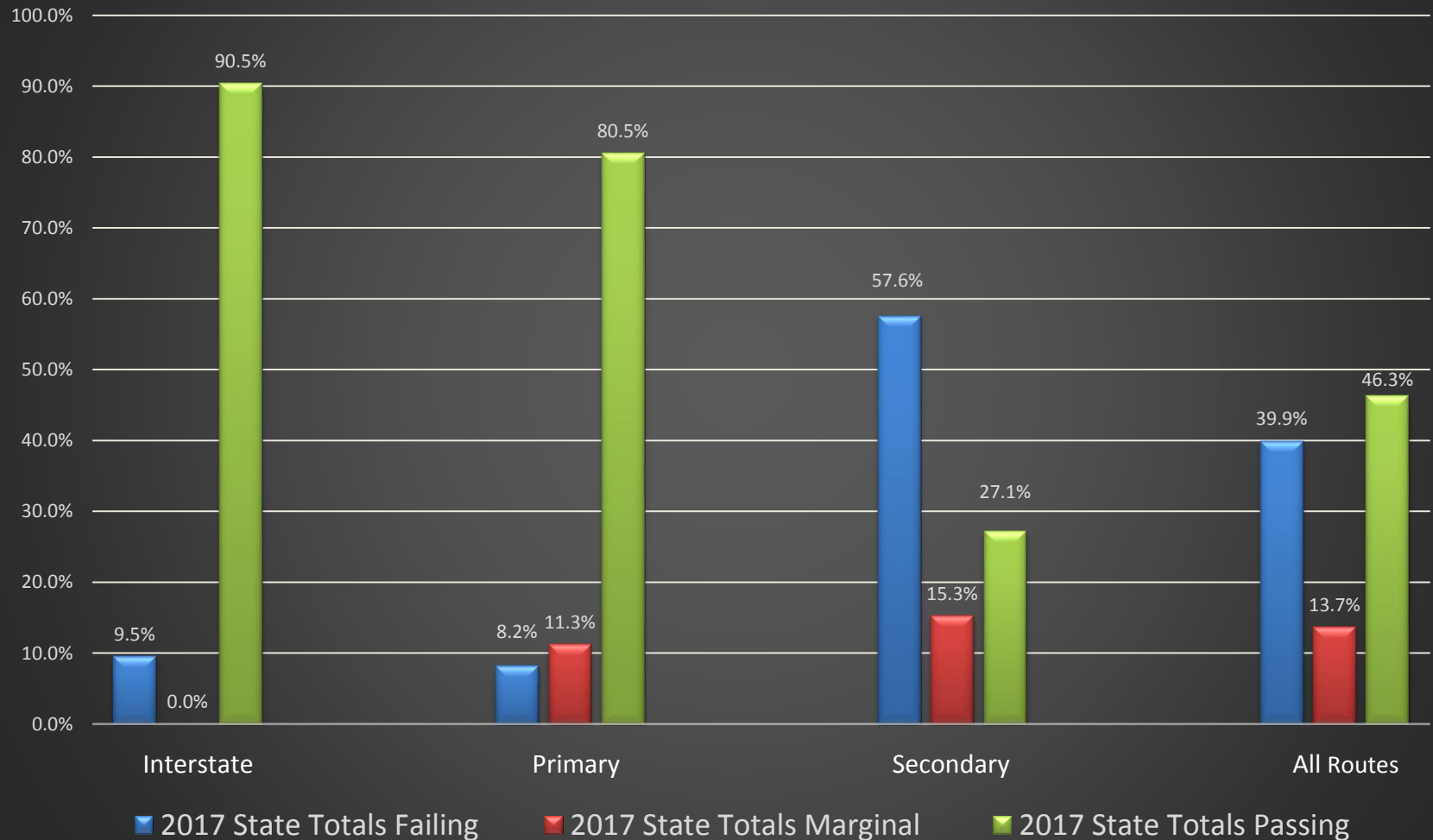
Pavement Marking Standards

- Manual on Uniform Traffic Control Devices for Streets and Highways, 2009
 - Indicates that markings must be visible at night and shall be retroreflective unless ambient illumination assures that the markings are adequately visible
 - All markings on Interstate highways shall be retroreflective
 - **Future section will detail standards of retroreflectivity**
- NC Statute (§ 136-30.1. Center line and pavement edge line markings)
 - Required to mark center and edge lines on all interstate, primary roads, **and all paved secondary roads having an average traffic volume of 100 vehicles per day or more, and which are traffic service roads forming a connecting link in the State highway system.**
 - Not required to mark local subdivision roads, loop roads, dead-end roads of less than one mile in length
 - Not required to mark roads on which curbing has been installed or which are less than 16 feet in width
- North Carolina Standard Specifications for Roads and Structures (Jan 2012)
 - Details the process of installing, replacing, maintaining markings
 - Reflectometer Requirements at time of install:
 - **Thermoplastic / Polyurea (Long Life Marking): min 250-375 mcd/lux/m² (Yellow / White)**
 - **Paint: 200-225 mcd/lux/m² (Yellow / White)**

Status of NC Pavement Marking

2017 NC MOBILE AUDIT

Minimum Retroreflectivity - 100



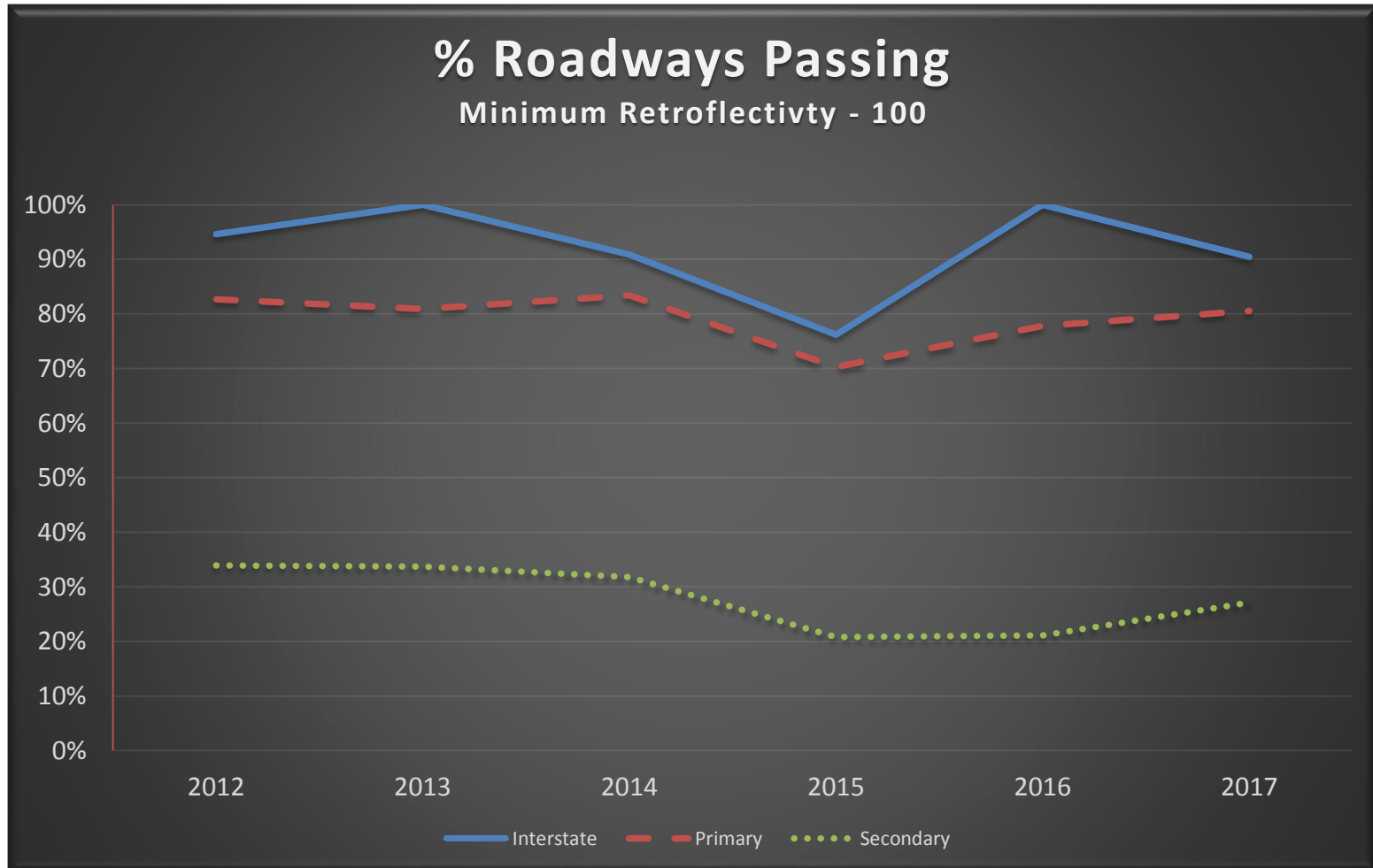
Status of Retroreflectivity Minimum on State Maintained Roads, 2017 Audit

Type	Total Miles	* % Meet Standard	* Miles Out of Tolerance
Interstate	1,257	90.5%	120
Primary	13,805	80.5%	2,686
Secondary	64,546	27.1%	**45,000

* Estimates are based on random samples during 2017 audit

** Not all secondary roads require pavement marking (~20% unmarked); this estimate provides a rough order of magnitude;

Status of Retroreflectivity Minimum on State Maintained Roads over 5 yrs

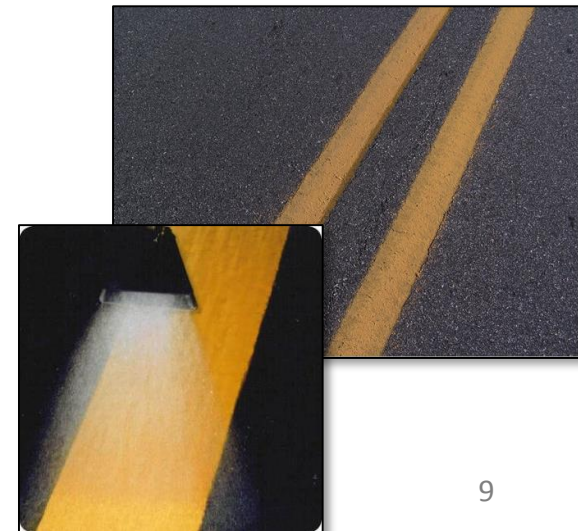


Rough Order of Magnitude Pavement Marking Maint

Long Life Marking (LLM) vs Paint

Type	\$ Paint / application	\$ Paint (8 yrs)	\$ LLM / application	\$ LLM (8 yrs)
Secondary	\$ 200M	\$ 800M	\$ 450M	\$ 450M
Primary	\$ 12M	\$ 48M	\$ 27M	\$ 27M
Interstate	\$ 0.7M	\$ 2.8M	\$ 1.4M	\$ 1.4M

- Secondary / Primary Roads (78,351 miles)
 - Paint = ~\$0.88 / ft of road every 2 years
 - Long Life Marking = ~1.92 / ft of road every 8 years
- Interstates (1,257 miles)
 - Paint = ~\$1.12 / ft of road every 2 years
 - Long Life Marking = ~2.20 ft of road every 8 years
- Not all secondary roads require pavement marking



Current Efforts

- HB469 established the Fully Autonomous Vehicle Committee
- NCHRP research will start to establish better guidelines
- Additional \$ to paving
- Markings eligible for more funding sources
- Letting larger contracts rather than chasing resurfacing

Are We Ready?

- Technologies requiring pavement markings
 - Interstates / primary roads: Yes, close to fully ready
 - Secondary roads: Depends
- Amount of miles to retrofit
 - Recommend converting to LLM for higher retroreflectivity and lifespan
 - ~50% reduction in cost over 8 years
- As ready as the manufacturers may or may not need us to be
 - Have not been approached to change anything, only to maintain “clear markings”

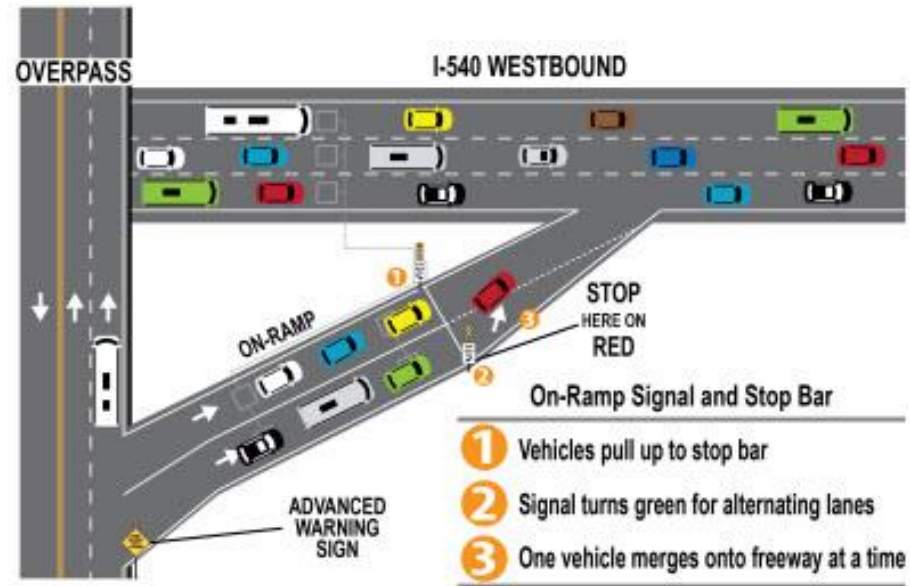
For More Information Contact:

Kevin Lacy, PE

jklacy1@ncdot.gov

<http://www.ncav.org/>

I-540 On-Ramp Signals

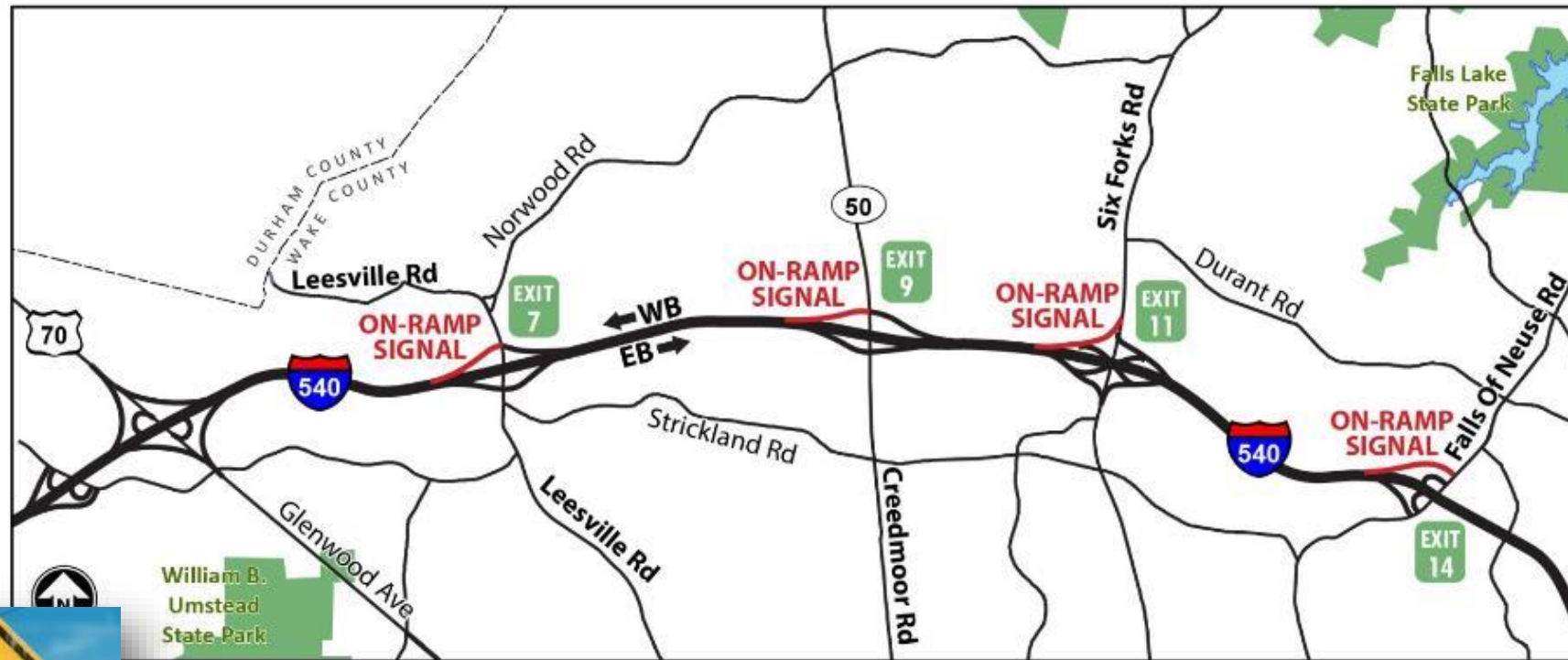


NCDOT Board Meeting – Highway Committee
Joey Hopkins, Division 5 Engineer
October 4, 2017

Project Overview



On-Ramp Signal Locations (All locations westbound – toward RTP)



- Falls of Neuse Road (Exit 14)
- Six Forks Road (Exit 11)
- Creedmoor Road (Exit 9)
- Leesville Road (Exit 7)

On-Ramp Signals – Public Outreach



Public Outreach

- Tagline
- Brochure
- Website

www.ncdot.gov/projects/onrampsignals

Presentations

- CAMPO
- Local Officials Meeting
- Raleigh Northwest CAC
- Raleigh North CAC
- RTA

On-Ramp Signals for Congestion Relief

On-ramp signals, also known as ramp meters, are coming to I-540 westbound at:

- Falls of Neuse Road (Exit 14)
- Six Forks Road (Exit 11)
- Creedmoor Road (Exit 9)
- Leesville Road (Exit 7)

I-540 On-Ramp Signal Project

Wake County
STIP No. I-5710

www.ncdot.gov/contact/question/general/
www.ncdot.gov/projects/onrampsignals/

Public Outreach

- Public Meeting – 9/2016
 - 14,000+ postcards
 - News Release
 - Media Coverage
 - 74 attendees



Learn about NC's First On-Ramp Signal Project

State Transportation Improvement Program Project No. I-5710

The N.C. Department of Transportation will hold a public information meeting about on-ramp signals (also known as ramp meters) to be implemented on I-540 at the following locations:

- Falls of Neuse Road (Exit 14)
- Creedmoor Road (Exit 9)
- Six Forks Road (Exit 11)
- Leesville Road (Exit 7)

The meeting will be held Thursday, September 29th from 4:00pm to 7:00pm at Abbotts Creek Community Center, located at 9950 Durant Road in Raleigh. The format will be open house style, so attendees can drop in at any time between 4:00pm and 7:00pm.

NCDOT staff and representatives from Atkins, the project consultant, will be present to discuss the project and answer questions.

For more information, contact Jamille Robbins, NCDOT Public Involvement, at 919-707-6085, or via email at jarobbins@ncdot.gov. Or contact Kim Bereis of Atkins at 704-665-4404 or via email at kimberly.bereis@atkinsglobal.com. Visit our website at www.ncdot.gov/projects/onrampsignals for more information.

NCDOT will provide auxiliary aids and services under the Americans with Disabilities Act for disabled persons who want to participate in this hearing. Anyone requiring special services should contact Jamille as early as possible so that arrangements can be made. In addition, NCDOT will provide interpretive services upon request for persons who do not speak English, or have a limited ability to read, speak or understand English. Kindly request these services prior to the hearing by calling 1-800-481-6494.

Aquellas personas que hablan español y no hablan inglés, o tienen limitaciones para leer, hablar o entender inglés, podrían recibir servicios de Interpretación si los solicitan antes de la reunión llamando al 1-800-481-6494.

PUBLIC MEETING

September 29, 2016
4:00pm to 7:00pm

Abbotts Creek Community Center
9950 Durant Road
Raleigh, NC 27614

Connecting people, products, and places safely and efficiently with customer focus, accountability and environmental sensitivity to enhance the economy and vitality of North Carolina.

On-Ramp Signals – Informational Video



Introducing On-ramp Signals in North Carolina

- What are on-ramp signals?
- How do they work?
- How will they benefit you?

<https://www.youtube.com/watch?v=xb01eN8tRiM>



Why Consider On-Ramp Signals for I-540?



Project Planning Studies

Ramp Metering Feasibility Study for Durham and Wake Counties (March 2013)

- Screening/detailed study of Triangle area freeways, arterials:
 - I-40, I-440, I-540
 - US 1, US 15/501
 - NC 147
- 77 candidate sites identified
- 34 sites carried forward for detailed analysis
- 21 sites identified suitable for on-ramp signals



Project Planning Studies

I-540 Westbound Ramp Metering Analysis (March 2014)

- Follow-up **operational** analysis to previous feasibility study
- In-depth analysis for 4 locations along I-540
- **First pilot implementation** sites in North Carolina
- Specific improvements identified for implementation at each site



Benefits of On-Ramp Signals



Benefits of On-Ramp Signals

- Benefits include:
 - More reliable travel times
 - Reduced congestion
 - Fewer collisions
 - Emission reduction



Reported peak period benefits in other cities...

Performance Measure

Travel time ----

Location and Result

Atlanta – 10%
Houston – 22%
Arlington – 10%



Travel speed ----

Milwaukee – 35%
Portland – 155%
Detroit – 8%



Crash rate ----

Phoenix – 16%
Milwaukee – 15%



Crash frequency ----

Portland – 43%
Sacramento – 50%
Los Angeles – 20%



Vehicle volume ----

Milwaukee – 22%
Sacramento – 5%
Detroit – 14%



I-540 Predicted Annual Reduction in Delay

- Most states ~20% annual reduction in delay
- For I-540: 20% annual reduction in delay = 14,000+ vehicle-hours
- 10-20% annual reduction in delay (measured in vehicle-hours)
- Translates to \$300,000+ annual financial benefit to motorists



Possible Concerns with On-Ramp Signals



Possible On-Ramp Signal Concerns

- Concerns:
 - Uncertainty about Operation
 - Traffic backups onto side streets
 - Traffic diversion to other streets
 - Negative impact to travel time
- Solutions:
 - Outreach Efforts
 - Signing
 - Design and Signal Timing
 - Ongoing Monitoring

New warning signs for ramp metering



Revisions Incorporated into the 2009 MUTCD



2009 MUTCD (Final Rule)

Project Activities and Timeframe



Project Construction

- Project construction cost - \$2.5 million
- Timeframe 12/16 to 10/17
- Pavement Widening to Extend Ramps
- Signing and Pavement Markings
- Installation of On-Ramp Signals and “ITS” Elements (i.e. CCTV cameras)
- Anticipated Go Live 9/26/17



Questions?





NORTH CAROLINA
Department of Transportation



US 221 Widening Project in Watauga and Ashe Counties

Mike Pettyjohn, Division 11 Engineer

September 6, 2017

Agenda

- Project Overview
- Project Development
- Project Highlights

Project Overview

- Work is underway to widen U.S. 221, from U.S. 421 in Deep Gap to U.S. 221 Business/N.C. 88 in Jefferson, into to four-lane median-divided highway.
- The 16.1-mile project is designed to improve traffic flow, increase capacity reduce the number of crashes and increase regional connectivity along this highly traveled corridor.
- U.S. 221 is key to the High Country and connecting Boone with Jefferson. It is the main corridor into Ashe County for commuters and commercial vehicles alike. Ashe County is the largest producer of Christmas trees in the nation and is home to a GE Aviation plant.
- Much of the widening involves smoothing out curves and reducing grade inclines which provide a greater sight distance for all motorists.

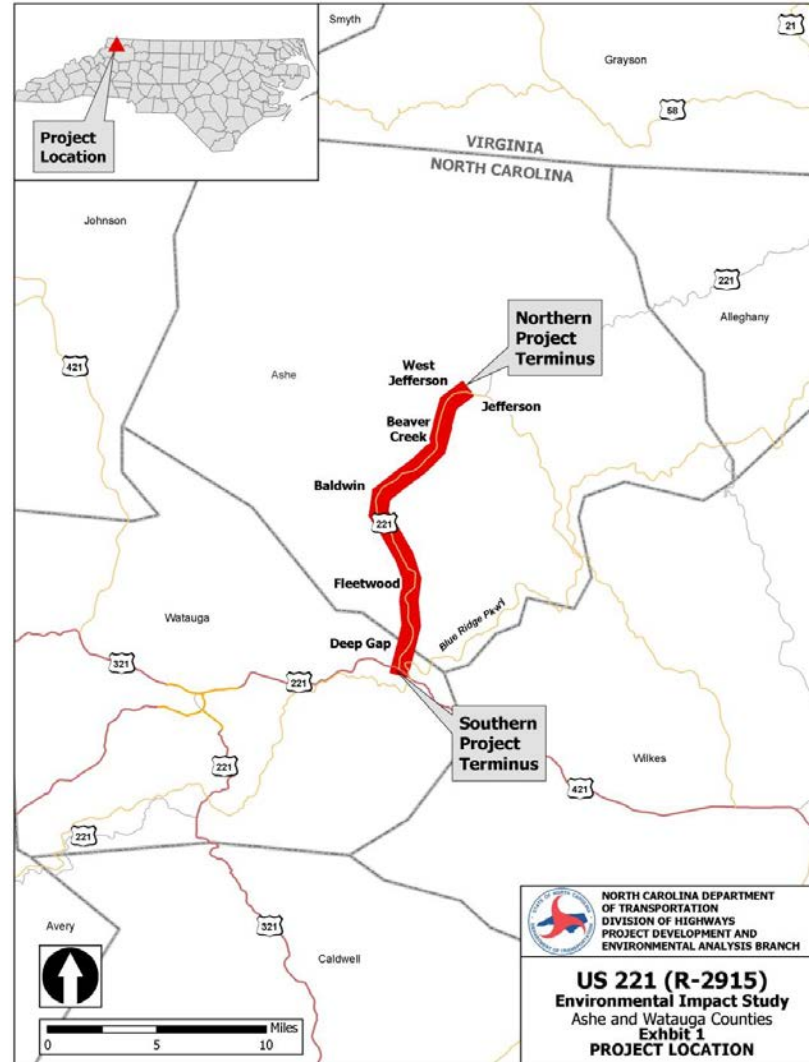
Project Development

- Project identified as part of the Trust Fund law in 1989
- Through a collaboration of the Department, Legislature, and Ashe County the project was funded in 2009 STIP
- Sections A, B and D were transition projects upon the implementation of the STI law.
- Environmentally we have used the best fit to minimize impacts.
- Much public support for the project.

The widening project is being completed in five sections:

- U.S. 421 to Idlewild Road in Watauga and Ashe counties (referred to as Section A) is 2.8-miles with a construction cost of \$25.6 million.
- Idlewild Road to North of South Fork New River in Ashe County (referred to as Section B) is 1.8 miles with a construction cost of \$21.3 million.
- South Fork New River to South of N.C. 194 in Ashe County (referred to as Section C) is 4 miles with a construction cost of \$53 million
- South of N.C. 194 to North of N.C. 163 in Ashe County (referred to as Section D) is 4 miles long with a construction cost of \$21 million.
- N.C. 163 to U.S. 221 Business/N.C. 88 in Jefferson (referred to as Section E) is 3.5 miles and is estimated to cost \$15.4 million.

Project Map



Project Highlights

- US 421/US 221 Interchange
- Significant Grading
- Drainage Issues and Traffic Control











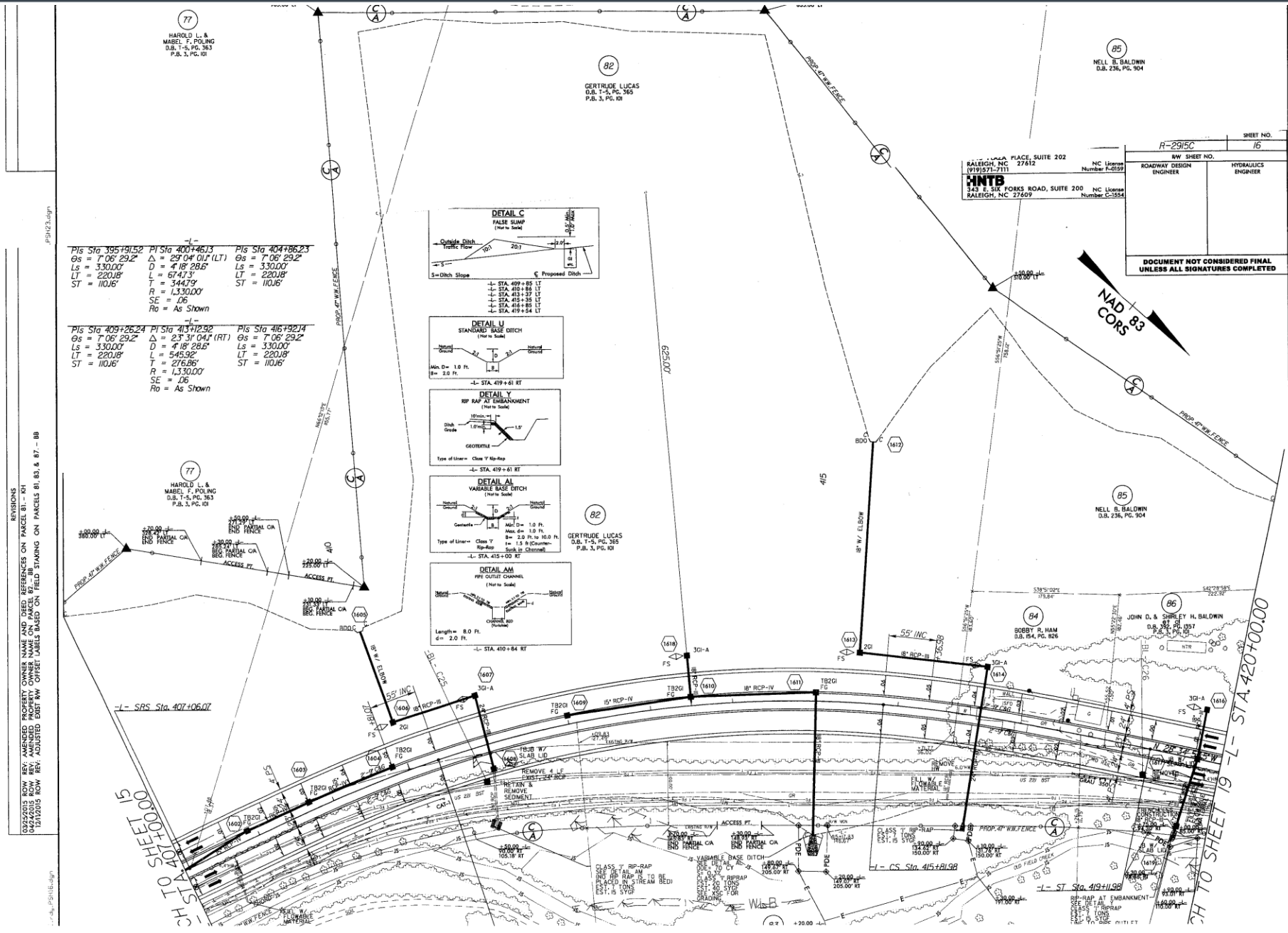












REVISIONS
 03/26/2015 ROW REV. AMENDED PROPERTY OWNER NAME AND CDED REFERENCES ON PARCEL 81 - B1
 04/24/2015 ROW REV. AMENDED PROPERTY OWNER NAME ON PARCEL 82 - B1
 12/12/2015 ROW REV. ADJUSTED EXIST RW OFFSET LABELS BASED ON FIELD STAKING ON PARCELS 81, 83, & 87 - B8

CH TO SHEET 15
 CH TO SHEET 400

CH TO SHEET 19
 L- STA. 420+00.00







Questions?



MULTI-MODAL COMMITTEE MEETING MINUTES

DATE: 9/6/17 TIME: 2:21 pm LOCATION: EIC

MEETING CALLED BY	Chairman Andy Perkins
BOARD ATTENDEES	Nina Szlosberg-Landis, Anthony Lathrop, Daniel McComas, Allen Moran, Valerie Jordan, Hugh Overholt, Tracy Dodson, Billy Clarke

AGENDA TOPICS

1. MEETING CALL TO ORDER AND APPROVAL OF JUNE 28 TH , MINUTES – CHAIRMAN PERKINS	
DISCUSSION SUMMARY	Chairman Perkins called the committee to order, presented roll call, read the non-conflict statement and asked for a motion to approve the minutes as distributed.
ACTIONS TAKEN	A motion to approve the June 28 th 2017 Multi-Modal committee meeting minutes as distributed was made by Billy Clarke and seconded by Hugh Overholt. The committee approved unanimously.
2. FUNDING ITEMS (AVIATION, PTD, RAIL)	
DISCUSSION SUMMARY	Information was presented by Multi-Modal Directors for the Committee's approval.
ACTIONS TAKEN	<ul style="list-style-type: none"> • Motion to approve Aviation Funding Item made by Billy Clarke, and seconded by Tracy Dodson • Motion to approve PTD Funding Item made by Tracy Dodson and seconded by Anthony Lathrop. • Motion to approve Rail Funding Item made by Billy Clarke, and seconded by Hugh Overholt. <p>All approved unanimously.</p>
3. MULTI-MODAL UPDATES – CHIEF DEPUTY DAVID HOWARD	
DISCUSSION SUMMARY	<ul style="list-style-type: none"> • Chief Deputy Howard announced Julie White as the new Director of Multi-Modal Transportation and informed the committee that Kathy Richardson will be her Administrative Assistant and coordinate the Multi-Modal Committee starting with the November Board meeting. • Chief Deputy Howard welcomed back Harold Thomas as the new Ferry Director. • Chief Deputy Howard informed the committee that a standard template will be included the modes of transportations monthly report as a quick reference to Division highlights. • Chief Deputy Howard gave an update on Rail, Ferry , Bike & Ped, Aviation and PTD
ACTIONS TAKEN	No action taken
4. PUBLIC TRANSPORTATION DIVISION PRESENTATION – DEBBIE COLLINS	
DISCUSSION SUMMARY	<ul style="list-style-type: none"> • Debbie Collins, Director of Public Transportation gave a presentation of PTD highlighting the division's planning processes including their Strategic Plan and Community Connectivity Plan.



MULTI-MODAL COMMITTEE MEETING MINUTES

ACTIONS TAKEN	No action taken
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5. COMMENTS AND WRAP-UP	
DISCUSSION SUMMARY	Nina Szlosberg-Landis and Andy Perkins suggested a working group with STI with the modes of transportation to figure out how to get more funding. Chairman Perkins asked about the piedmont transportation plan. Allen Paul reported that the Piedmont Improvement Program (PIP) is closed out for the year. Chairman Perkins thanked the rail staff and contractors for all their hard work.
ACTIONS TAKEN	No action taken

Adjourned: 3.28 pm



MULTI-MODAL COMMITTEE COMMITTEE AGENDA

BOARD OF TRANSPORTATION October 4, 2017

TIME: 2:10 PM

LOCATION: EIC

TOPIC	PRESENTER	TIME
Call to Order Roll Call Declaration of Quorum Approval of September 6, 2017 Meeting Minutes	Chairman Perkins	2:10-2:15
Funding Items (Aviation, PTD, Rail)	Transit Directors	2:15-2:20
Multi-Modal Update	Julie White	2:20-2:25
Ferry Division Update <ul style="list-style-type: none"> • Division Highlights • Hatteras to Ocracoke Passenger Ferry • Future of Mode • Committee Discussion 	Harold Thomas Jed Dixon Ed Timoney, Ferry Division Consultant, RK&K	2:25-3:20
Adjourn	Chairman Perkins	3:20-3:30



MULTI MODAL COMMITTEE AVIATION DIVISION REPORT

BOARD OF TRANSPORTATION OCTOBER 4, 2017

PROJECTS (Provide status/update for top 3-5 projects in respective mode)

- Aviation Funding - Executed the 2017 Federal Fiscal Year FAA Block Grant in September. This grant will provide \$14.7M for projects at General Aviation (GA) Airports. We also executed one additional FAA Discretionary Grant for \$2.2M for the Rutherford County Airport Pavement Rehab Project. This brings our total FAA Block Grant funds for FFY 2017 to \$16.9M to be distributed among 62 NC GA Airports.
- We are finalizing our FY18-20 contract for Aviation DBE Program Services.
- Aircraft Fleet Plan Study Division of Aviation staff are meeting with all state agencies' leadership and travel coordinators to inform them about our services and to survey them on a needs/use evaluation. This information will be used in the overall analysis to determine the appropriate aircraft fleet size and services.
- NC UAS (Drone) Permits issued are now at 1,963.

BUDGET UPDATES (Provide budget reporting pertinent to respective mode)

- Of the FY18 \$100.5M in State Aviation Funding, 90% is obligated.
- Of the FFY 17 \$16.9M in FAA Block Grant Funds, 93% is obligated.

ANNOUNCEMENTS

(Share updates on announcements/upcoming events in respective mode)

NEW

- Holding a third UAS Workshop in Wilmington on September 28 at the McKeithan Center on the Cape Fear Community College North Campus. The purpose of these workshops is to show how beneficial and safe this technology can be with a focus on commercial and government drone operations and data mgmt.
- The N.C. Community College System approved the continuing education UAS curriculum developed by DoA staff. All community colleges in the state can now offer the curriculum, which will support UAS-related workforce development.

UPCOMING

- Planning to hold our fourth UAS Workshop in Thomasville on October 12 at the Mary E. Rittling Conference Center at Davidson Community College. More info coming out soon.
- Hosting a WWII Warbird Event 10/19-22 at RDU Airport in our hangar and on the ramp. Will have a B-17, B-24, B-25, and a P-51 on display along with several aviation displays. Targeting school age groups. WWII & Korean War Vets will be eligible for VIP passes.

MEETINGS ATTENDED (List any key meetings attended this month)

Presentations were made at the following meetings:

- Sep 10-13 – Attended the National Association of State Aviation Officials (NASAO) Annual Convention and Tradeshow near Mobile, AL.
- Sep 18 – Met with NCDOT Photogrammetry Unit to discuss crew and aircraft planning for future photo missions.



MULTI MODAL COMMITTEE BICYCLE AND PEDESTRIAN DIVISION REPORT

BOARD OF TRANSPORTATION
OCTOBER 4, 2017

PROJECTS (Provide status/update for top 3-5 projects in respective mode)

- Watch For Me NC - The DBPT has received **2017 Peter K. O'Rourke Special** Achievement Award this year from the Governors Highway Safety Association for the Watch for Me NC program.
- Planning Grant Initiative - The program provides funding for municipalities across the state to develop comprehensive bicycle or pedestrian plans. Smaller communities with populations of less than 5,000 can also apply to develop combined bicycle and pedestrian plans. Currently, through this program, staff is managing 22 planning projects.
- Active Routes to School Project - Through a joint partnership between the NCDOT Safe Routes to School program and the NC Division of Public Health, ten Active Routes to School Regional Coordinators help to implement Safe Routes to School strategies in communities across North Carolina. From July 2016 through June 2017, the ARTS Program reached people of all ages across the state:
 - **Walk to School Day events: 73,633 participants:** 233 events planned as of 9/21/17
 - **Walk/bike programs that occur on a regular basis: 15,616 students**
 - **Let's Go NC! NCDOT Walking and Bicycling Skills Program: 292 teachers trained; 14,280 students taught**

BUDGET UPDATES (Provide budget reporting pertinent to respective mode)

- No new updates

ANNOUNCEMENTS

(Share updates on announcements/upcoming events in respective mode)

NEW

- 2018 Bicycle and Pedestrian Planning Grant Initiative. – Applications are now being accepted. The deadline for application, to be submitted electronically, is Thursday, Nov. 9 at 5 p.m. The award selection committee will meet in January 2018 and the list of selected applicants will go to the Board in March 2018 for approval of funding. The Planning Grant Initiative has been very successful: in its first ten years, 183 municipalities have been awarded a planning grant, and a total of approximately \$5.0 million has been allocated to these municipalities through this grant program. Municipal plans cover approximately 40% of state population and regional plans cover 60+ counties.

UPCOMING

- Southeast Greenways and Trails Summit – Oct 1-3, 2017
- October 4, 2017 Walk to School Day
- NC STIC and National STIC Network Meeting – Oct 19
- Vision Zero Task Force – Oct 26
- Bike/Walk NC Summit – Nov 2-4, 2017

MEETINGS ATTENDED (List any key meetings attended this month)

- Fall DHHS Conference – Sept 19-20
- GHSA CONFERENCE – LOUISVILLE KY – SEPT 18-19
- BICYCLE AND PEDESTRIAN/TRAFFIC SAFETY UNIT/BIKE WALK NC COORDINATION MEETING – SEPT 22



MULTI MODAL COMMITTEE BICYCLE AND PEDESTRIAN DIVISION REPORT

- COUNCIL ON ACTIVE TRANSPORTATION – AASHTO – SEPT 26
- ECUSTA TRAIL UPDATE MEETING – SEPT 29



MULTI MODAL COMMITTEE FERRY DIVISION REPORT

BOARD OF TRANSPORTATION OCTOBER 4-5, 2017

PROJECTS (Provide status/update for top 3-5 projects in respective mode)

- Pedestrian Ferry Landside Amenities
 - Passenger shelter, parking and bathroom construction bids due 9.20.17
 - CAMA. USACE, DWQ permitting expected 10.20.17
- Platen 5
 - Soil and underground utility field work investigation completed. Conceptual Site Plan approved
 - Contractor working on storm water management design and concrete structural design 50% complete
 - Existing utilities and new ferry dimensions/weight info needs pushes design plans to January
- Floating Dock for Pedestrian Ferry
 - Design complete. Utility connections for ferry (shore side improvements) due 9.27.17
- Pedestrian Ferry
 - Armstrong Marine ordered major equipment (engines-water jets). Detailed engineering 70% complete
 - Delivery Date established as 6.1.18
- Current Dredge Studies

DREDGING SERVICES COST-BENEFIT ANALYSIS

Due February 1, 2018.

STUDY/USE OF DREDGE MANTEO

Due December 1, 2017.

FERRY DIVISION/LIFE-CYCLE PLAN FOR TERMINAL STRUCTURE REPAIRS AND REPLACEMENTS

November 1, 2017.

-

BUDGET UPDATES (Provide budget reporting pertinent to respective mode)

- FY 18
- Period Expenditures \$6,967,762.86
- Vessel Replacement Accounts Balance Forward \$ 9,329,105.22
- Shipyard Improvement Account Balance Forward \$ 1,063,418.92

ANNOUNCEMENTS

(Share updates on announcements/upcoming events in respective mode)

NEW

Passenger Ferry Stakeholder Group Oct 18th.

UPCOMING



MULTI MODAL COMMITTEE FERRY DIVISION REPORT

MEETINGS ATTENDED (List any key meetings attended this month)

Division tour for the Multi Modal Deputy Secretary and the NCGA Fiscal staff.

**NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
FERRY DIVISION MONTHLY UPDATE REPORT FOR Aug 2017**

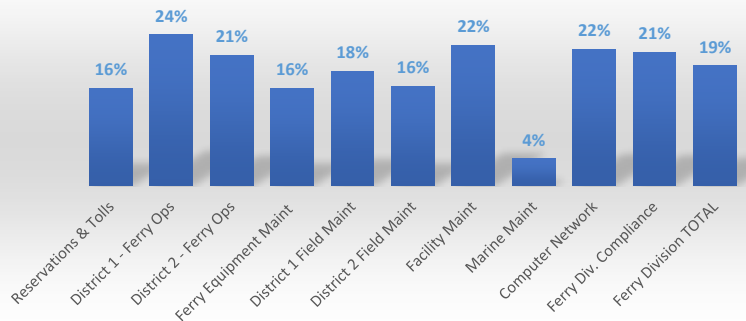
Ridership (Vehicles)

Ferry Routes	Aug 2017	Aug 2016	DELTA	FY17 YTD	FY16 YTD	DELTA
Currituck - Knotts Island	1,785	2,037	-12.4%	3,604	3,958	-8.9%
Hatteras - South Dock	28,810	38,276	-24.7%	65,122	79,406	-18.0%
Swan Quarter - Ocracoke	3,494	4,081	-14.4%	8,203	8,796	-6.7%
Cedar Island - Ocracoke	4,510	6,312	-28.5%	11,030	13,328	-17.2%
Aurora - Bayview	3,941	4,509	-12.6%	8,438	9,089	-7.2%
Cherry Branch - Minnesott	18,865	19,671	-4.1%	40,260	41,345	-2.6%
South Port - Fort Fisher	23,191	24,274	-4.5%	47,953	51,202	-6.3%
Emergency Ferry Rt.			N/A			N/A
Monthly Total	84,596	99,160	-14.7%	184,610	207,124	-10.9%
Schedule Maintained	96.3%	99.2%	-2.9%	96.7%	98.2%	-1.5%

Budget (Operations & Maintenance)

Departments	FY2017 Spending Plan	Expenditures through Aug 2017
Reservations & Tolls	\$ 356,074.00	\$ 55,285.57
District 1 - Ferry Ops	\$ 10,398,483.00	\$ 2,509,551.48
District 2 - Ferry Ops	\$ 8,049,597.00	\$ 1,683,421.50
Ferry Equipment Maint	\$ 13,270,111.00	\$ 2,064,963.55
District 1 Field Maint	\$ 481,520.00	\$ 87,853.66
District 2 Field Maint	\$ 591,042.00	\$ 93,621.31
Facility Maint	\$ 409,097.00	\$ 91,918.07
Marine Maint	\$ 1,238,433.00	\$ 52,969.81
Computer Network	\$ 344,000.00	\$ 75,094.60
Ferry Div. Compliance	\$ 1,188,495.00	\$ 253,083.31
Ferry Division TOTAL	\$ 36,326,852.00	\$ 6,967,762.86

Percent of Planned Budget Spent



Status of Capital Reserves Funds

Routes	WBS	WBS Balance as of	Aug 2017
FER Sys Cptl All Routes	16SP.501.1	\$	271,744.50
FER D1 Currituck-Knotts Island Cap Reserve	16SP.511.1	\$	29,034.19
FER D1 Hatteras Inlet Cap Reserve	16SP.512.1	\$	253,190.05
FER D1 Swan Quarter - Ocracoke Island Cap Reserve	16SP.513.1	\$	1,749,115.04
FER D1 Ocracoke Island of OI-Cedar Island Cap Reserve	16SP.514.1	\$	1,572,378.01
FER D2 Pamlico River Route Cap Reserve	16SP.521.1	\$	32,511.22
FER D2 Cherry Branch - Minnesott Beach Cap Reserve	16SP.522.1	\$	166,588.98
FER D2 Cedar Island of OI - Cedar Island Cap Reserve	16SP.523.1	\$	1,572,378.03
FER D3 South Port - Fort Fisher Cap Reserve	16SP.531.1	\$	3,682,165.20
FER Shipyard Capital Reserve	16SP.43	\$	1,063,418.92
Total		\$	10,392,524.14

Missed Trips Summary for Month Reporting

Ferry Routes	Scheduled	Missed	A	B	C	D
Currituck - Knotts Island	352	6	6			
Hatteras - South Dock	2,200	110		8		102
Swan Quarter - Ocracoke	248	13			1	12
Cedar Island - Ocracoke	310	23	1		4	18
Aurora - Bayview	434	26	6	20		
Cherry Branch - Minnesott	1,654	48	40	8		
South Port - Fort Fisher	960	12		12		
Monthly Total	6,158	238	53	48	5	132

Missed Trips Legend: A-Weather, B-Mechanical, C-Inspections, D-Other

Shipyard Capital Reserve Brief

Expenditures	Aug 2017	Cumulative
16SP.43.1	\$4,897.00	\$762,276.77
Receipts	Aug 2017	Cumulative
16SP.43.2	\$44,661.69	\$1,815,841.47
Commitment Line Items		Value
Total Commitments		\$0.00
Upcoming priorities		Estimate
Water tower restoration		\$500,000.00
Replace 30 year old chiller & boiler system		\$200,000.00
Pending Receipts	Amount	





NORTH CAROLINA

Department of Transportation



Hatteras to Ocracoke Passenger Ferry

Presented by: Ed Timoney, Project Manager

October 4, 2017

Hatteras Inlet

Time Lapse 1984-2016

In 2013, shoaling in the Hatteras Inlet forced the Ferry Division to use a longer, deeper route between Hatteras and Ocracoke (South Dock



Hatteras Inlet

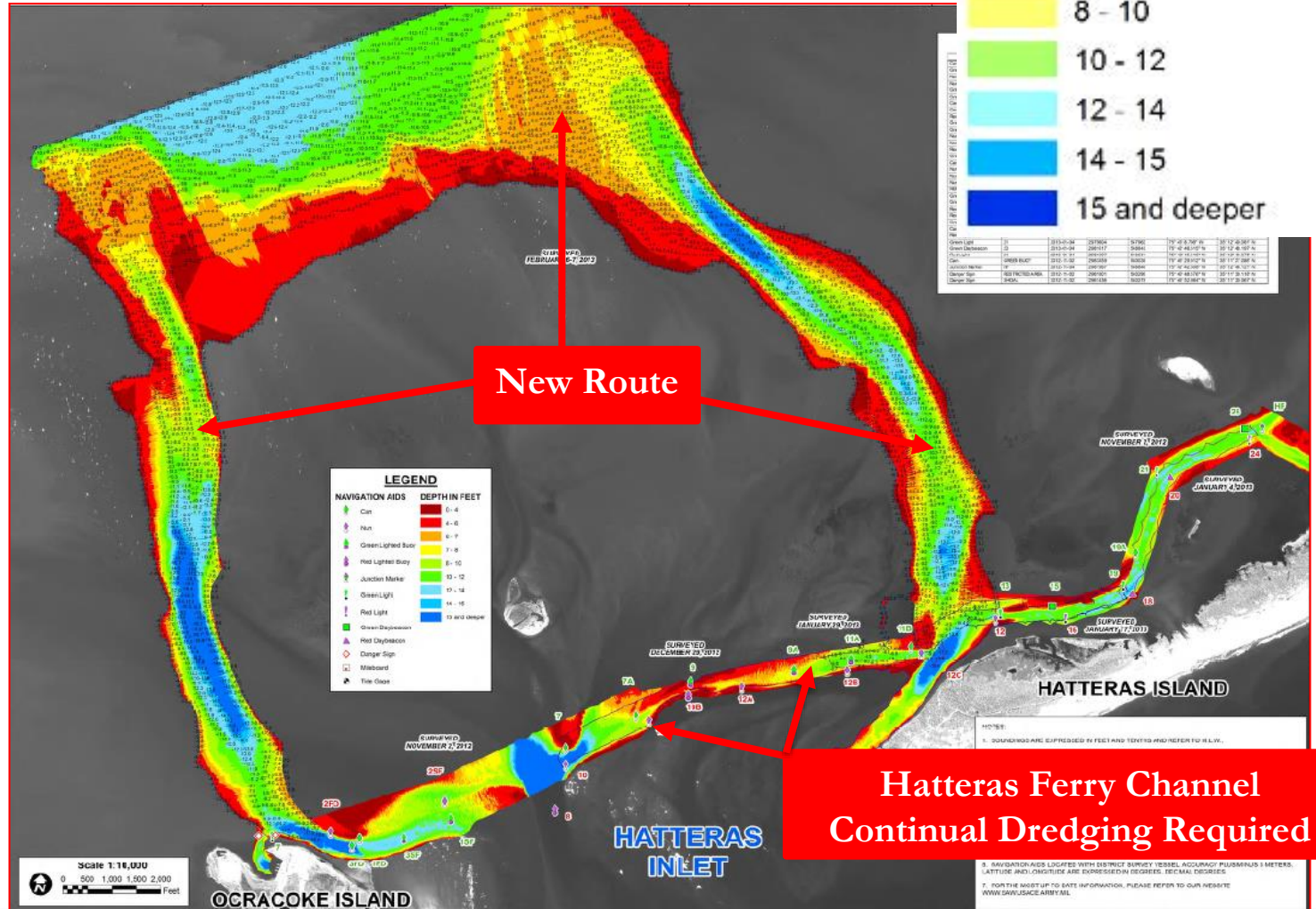
Hatteras Ferry Channel – 4.3-miles

- Emergency Area
- Federally Maintained
- Constant Dredging
- Up to 52 departures/day

Alternate Route – 9.5 miles

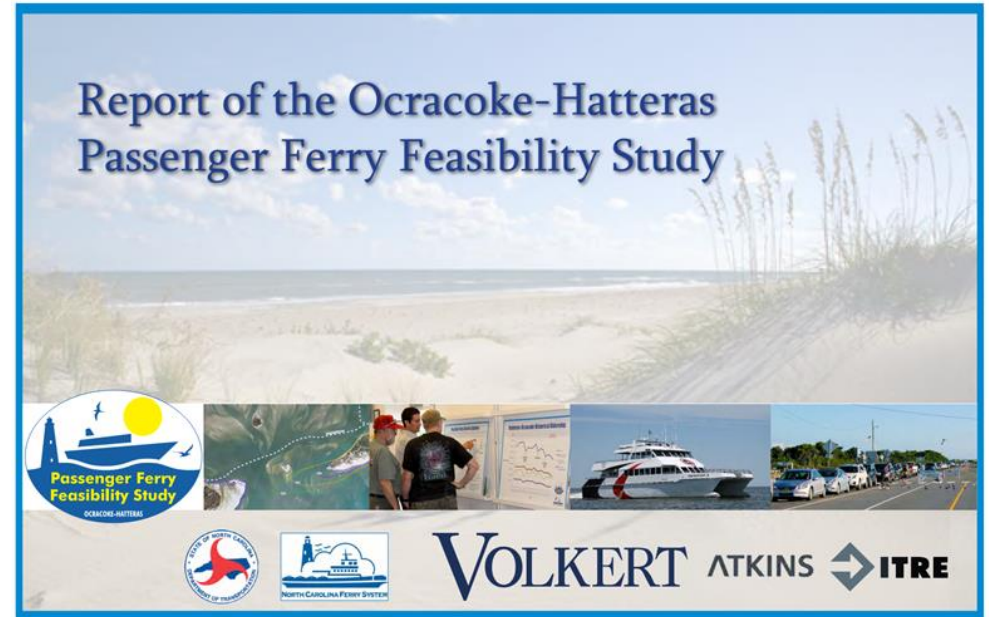
- Natural Deep Water Channel
- Cost Up to \$250,000 more per month in labor/fuel
- Up to 42 departures/day

Depth In Feet



Passenger Ferry Feasibility Study

- Ferry route to Ocracoke changed due to shoaling
- Longer route caused reduction in number of crossings
- Longer wait times at terminals
- Unmet travel demand (vehicles leaving queue)
- Increase in labor, fuel, and maintenance costs

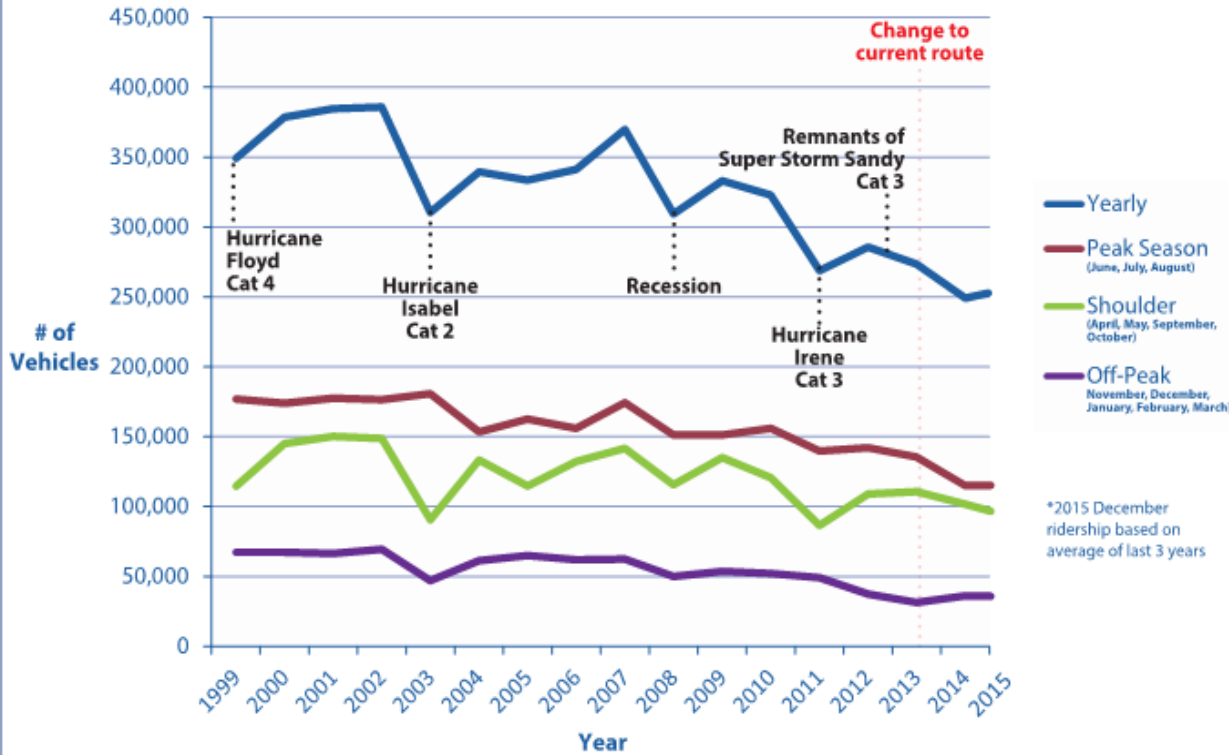


Vehicles queued on Hwy 12 to board ferry at Hatteras

*Approximately 9% of vehicles
left the queue at Hatteras during the peak times. This loss of
ridership directly results in lost visitor spending on Ocracoke.*

Feasibility Study Findings

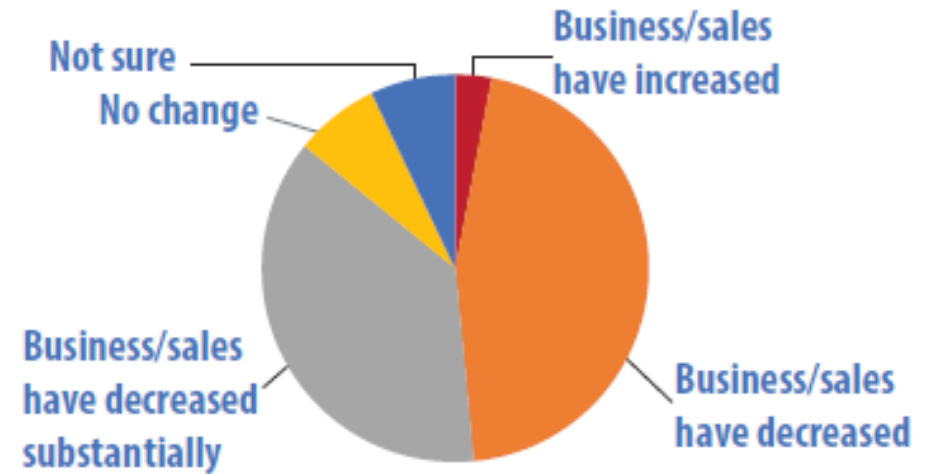
Hatteras-Ocracoke Historical Ridership



- Decrease in ridership
- Decrease in business revenue for Ocracoke and Hyde County

Eighty-six percent reported that the decrease in visitors has been a major challenge to business.

Ferry Service Impacts on Business



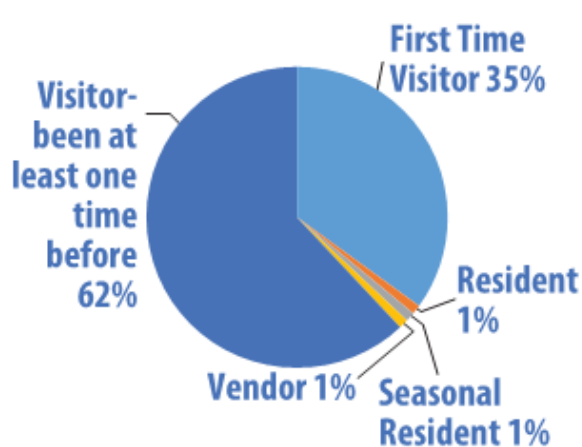
Almost all of survey respondents reported that long wait times at ferry docks are a major challenge to their business.

Feasibility Study Findings

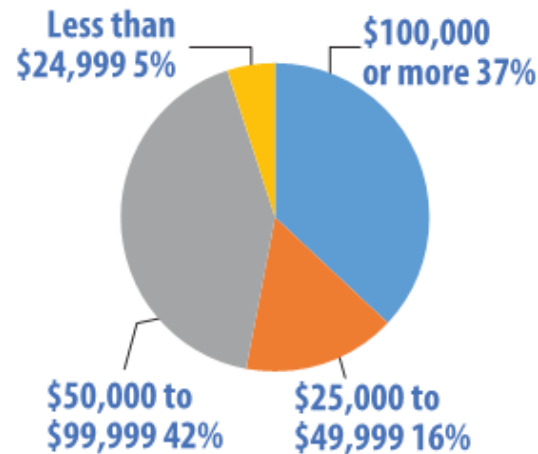
Ferry Passenger Survey



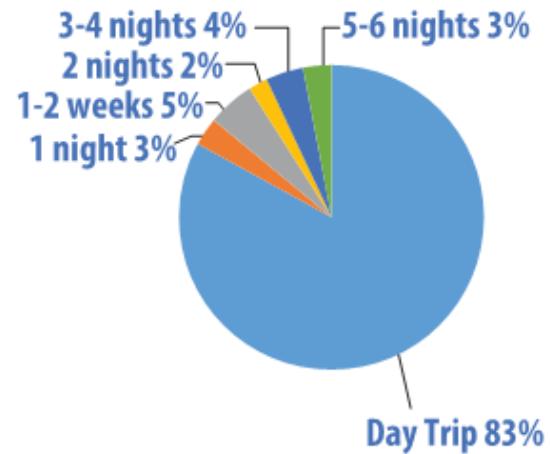
Type of Participant



Annual Household Income



Number of Nights in Ocracoke



58% of respondents would rate their visit to Ocracoke as "Excellent"

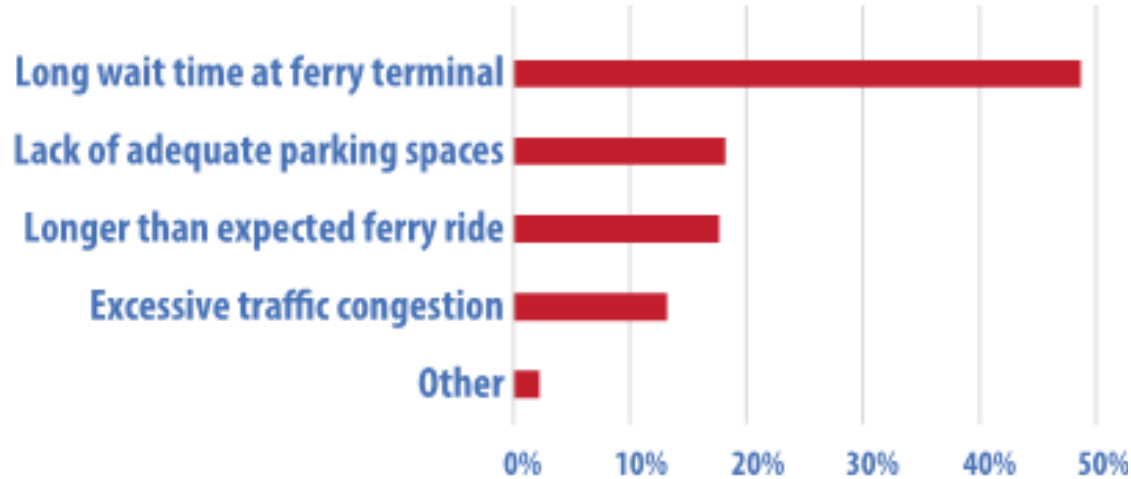
94% of respondents would recommend Ocracoke Island to a friend

17 of the 20 respondents who would not recommend this trip to a friend experienced a long wait time for a ferry

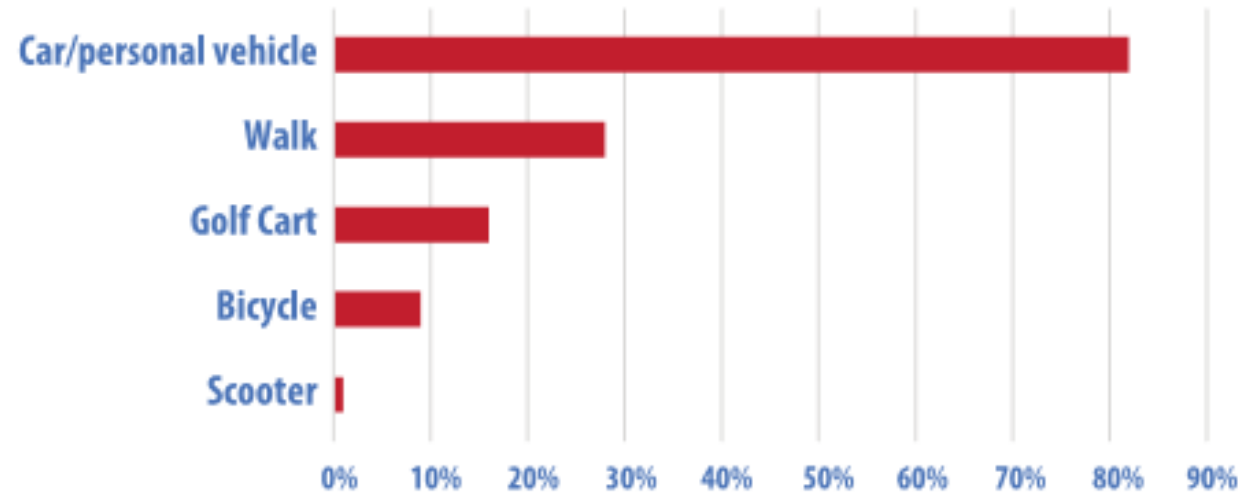
Feasibility Study Findings

Ferry Passenger Survey

Difficulties during visit



Mode of Transportation on Island



Feasibility Study Findings



Recommendations Summary

In summary the study team recommends the following:

- **Two approximately 100-passenger ferries** capable of cruising at approximately 25 knots.
- Using **Rollinson Channel** to access the Pamlico Sound and **Big Foot Slough** to access Silver Lake.
- **Eight round trips per day** with the first departure from Hatteras at 8:00 AM with the last departure from Ocracoke at 8:30 PM May through September.
- A **\$15 round trip fare** per passenger.
- **Online and application-based ticketing.**
- Construction of an **open-sided terminal immediately adjacent to the existing Hatteras Terminal.**
- **Parking and passenger drop off** in the existing lot adjacent to the Hatteras Terminal. **Additional parking** located in the existing Graveyard of the Atlantic Museum parking or in a newly constructed lot adjacent to this facility with shuttle service to the Hatteras Terminal.
- **A system of signage**, including a variable message sign, at the approach to the Hatteras Terminal.
- **A floating platform** that allows for berthing of two vessels and side loading/unloading at Hatteras and Ocracoke.
- **Ocracoke docking** immediately adjacent to the existing Sound Class ferry docks.
- **A temporary terminal** located immediately adjacent to the National Parks Service Ocracoke Visitors Center.
- **A permanent terminal** in this same location that will accommodate the Ferry Division, NPS, and Hyde County.
- **A comprehensive signing package** to disperse passengers from the Ocracoke Terminal.
- **A loop transit system on Ocracoke** with 20-30 minute headways.

3 Main Project Components



Terminal Improvements

- Floating docks
- Parking
- Passenger Shelter
- Additional Bathrooms
- Ticket facilities

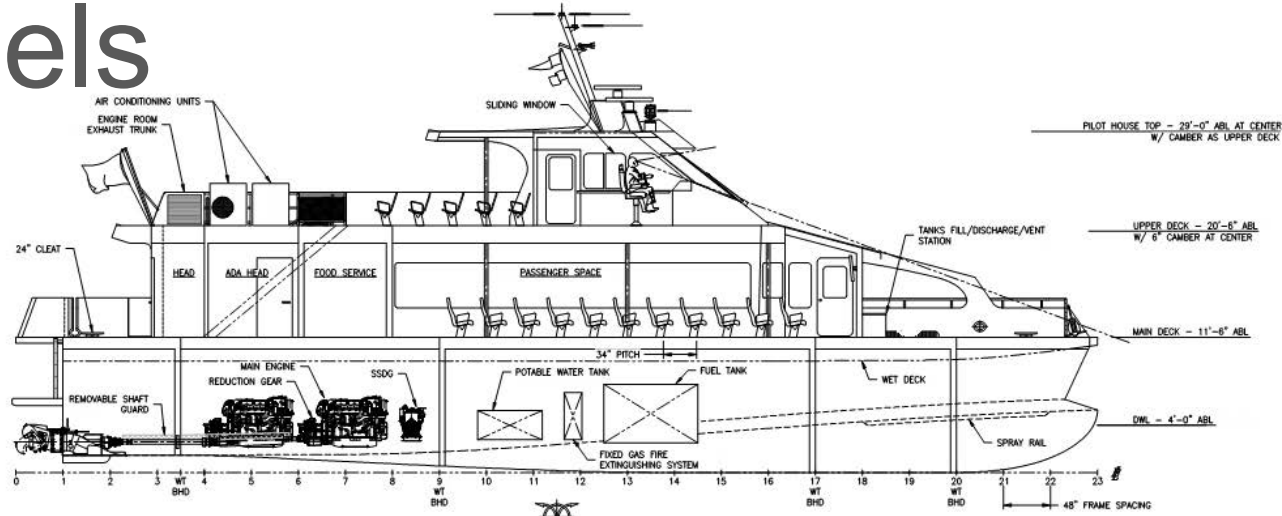
Passenger Ferry

- Aluminum Catamaran Fast Ferry
- 98 passenger
- Luggage and bicycle storage
- Snack Bar
- 28 knot Cruising Speed

Ocracoke Transit

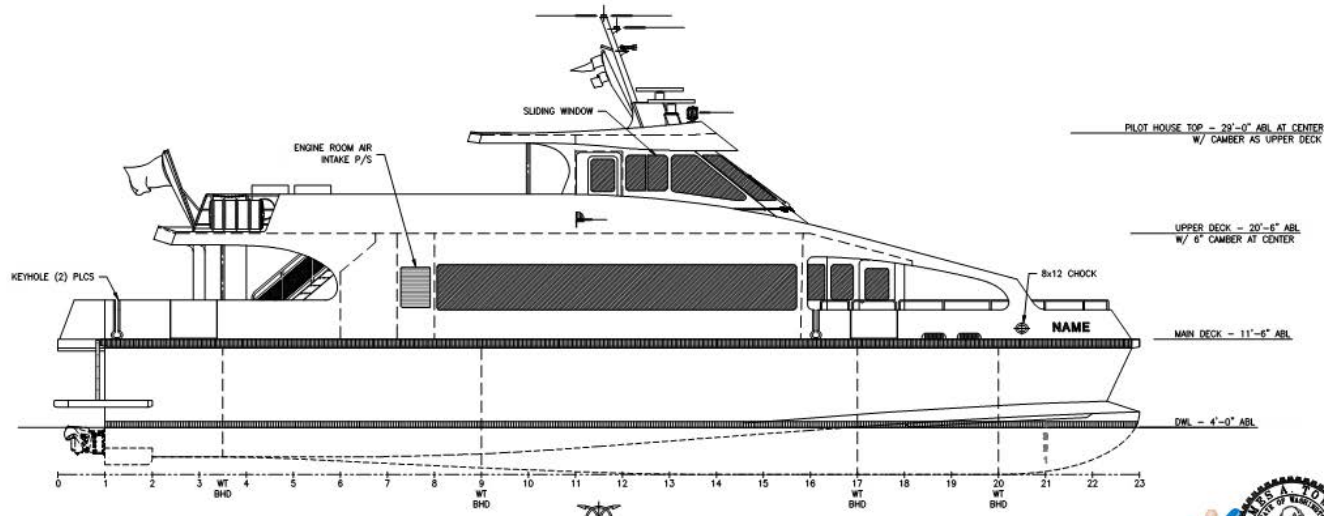
- 4 Open-Air Electric Shuttles
- Wheelchair accessible
- 12 mph (loaded)
- 8 Stop Transit Loop

The Vessels



INBOARD PROFILE
BELOW MAIN DECK SHOWN AT CL OF DEMI-HULL
ABOVE MAIN DECK SHOWN AT VESSEL CENTERLINE

Inboard Profile

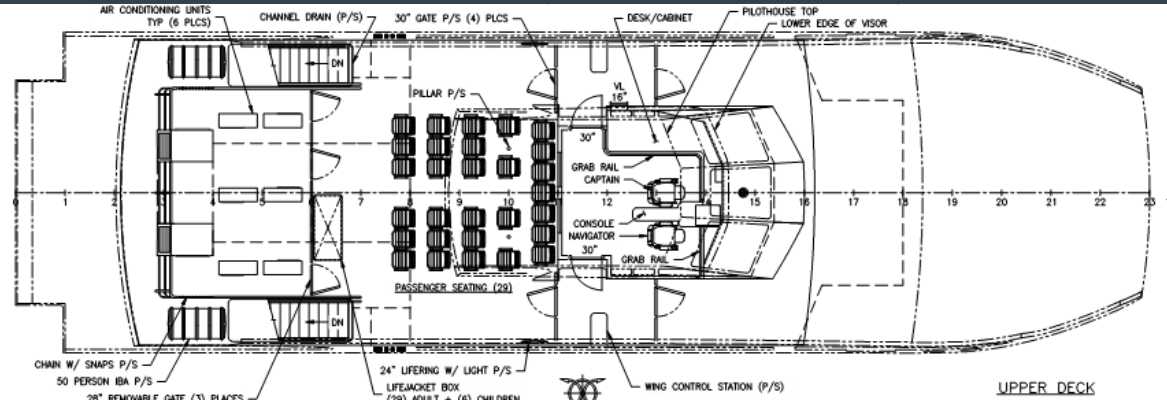


OUTBOARD PROFILE

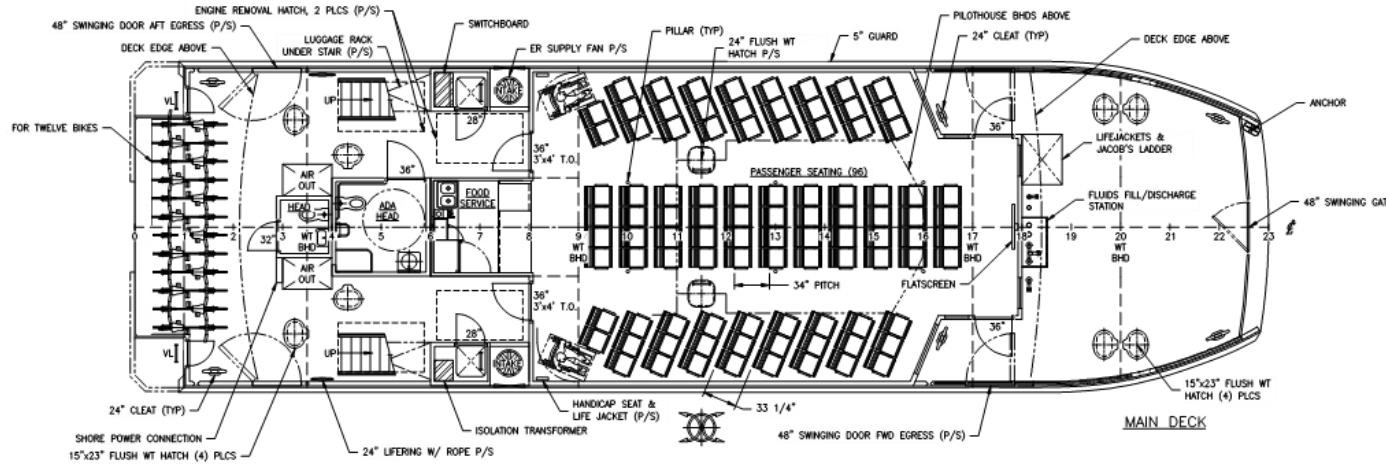
Outboard Profile



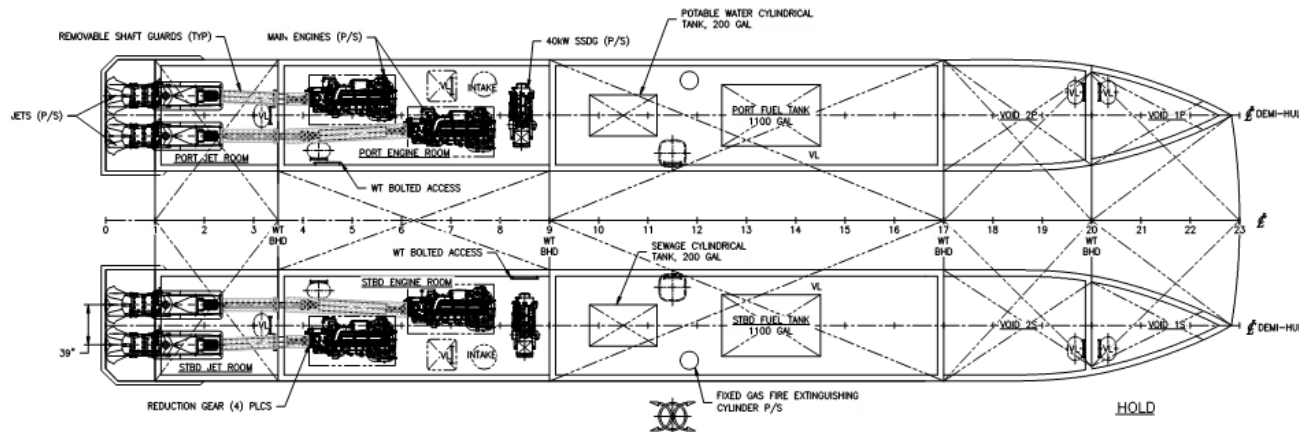
Upper Deck



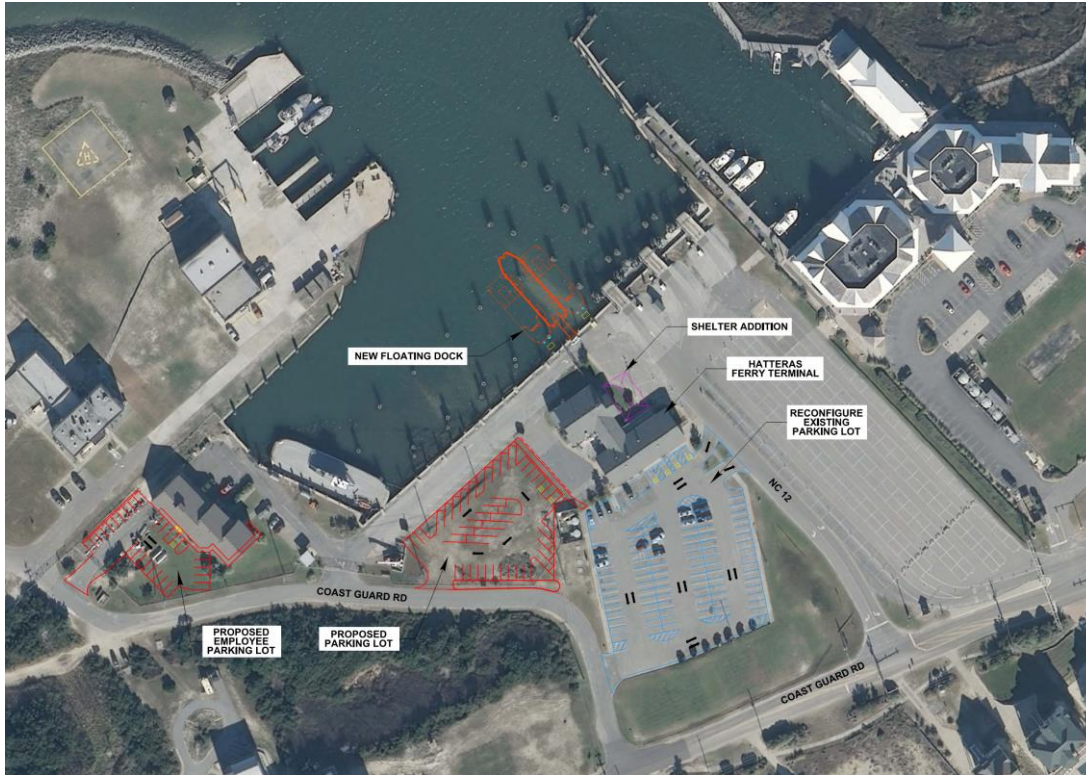
Main Deck



Hold



Terminal Improvements

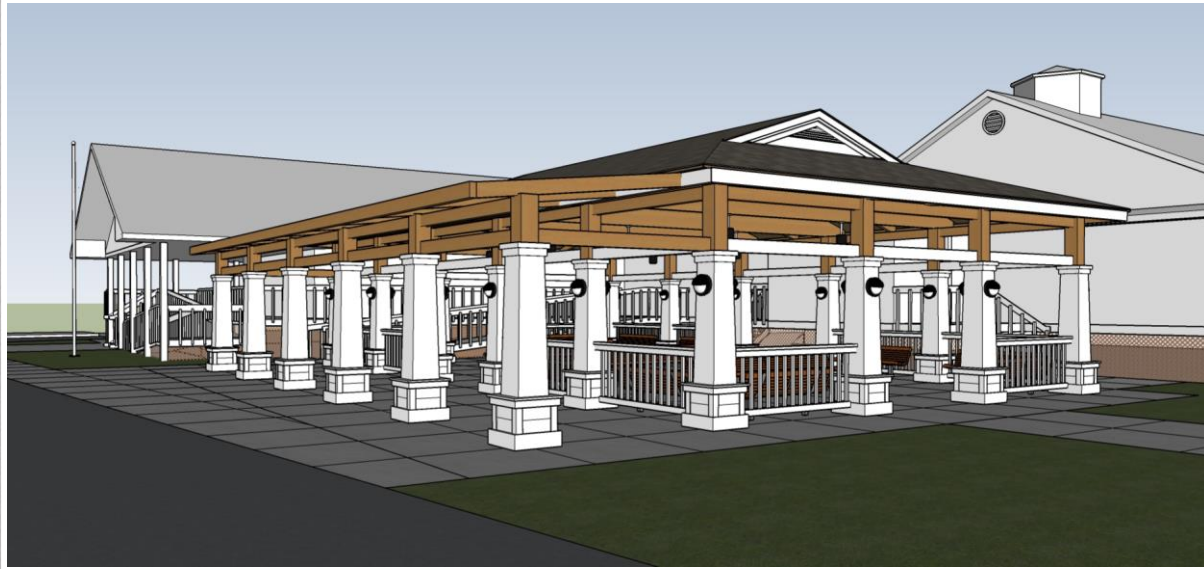


Hatteras Terminal



Ocracoke – Silver Lake Terminal

Hatteras Terminal



Passenger Shelter



Ocracoke Terminal

Bathroom
Addition



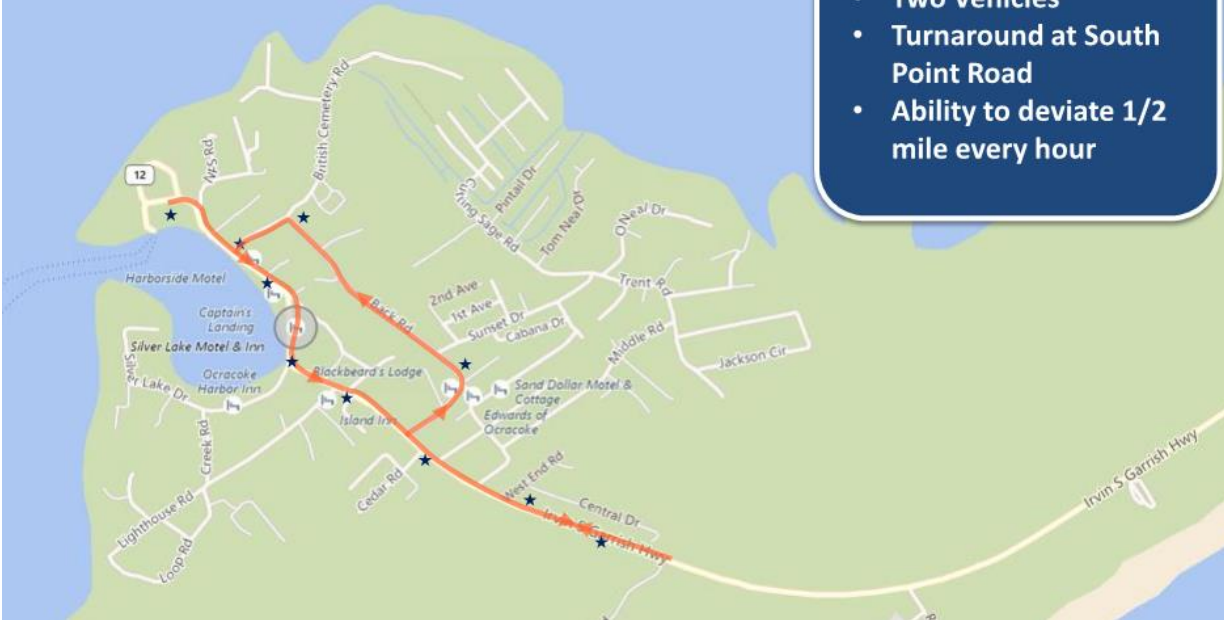
Passenger Shelter



Ocracoke Transit

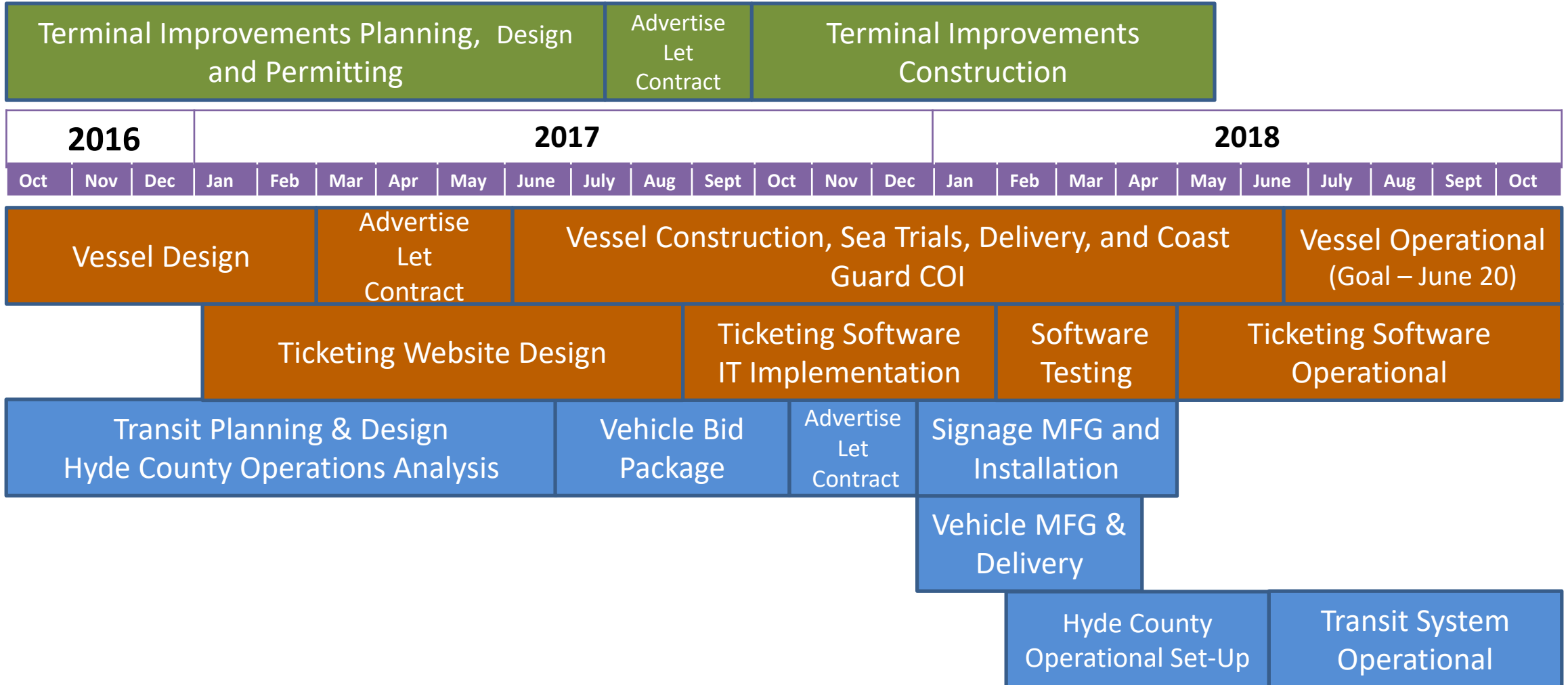
TRANSIT CIRCULATOR

- Two Vehicles
- Turnaround at South Point Road
- Ability to deviate 1/2 mile every hour



- NCDOT to provide 4 Passenger Shuttles to Hyde County
- Hyde County responsible for transit operations
- 3 Mile Transit Loop
- 8 Point-of-Interest Stops

Timeline



Funding

Funds Available for Construction = \$ 7,049,752

Project Funding

NC GA Appropriation =	\$ 3,650,000
FLAP Funds =	\$ 5,470,288
Total Funds Available =	\$ 9,120,288

Design & Engineering Contracts

Engineering Fees		
Federal Lands =	\$ 100,000	(FL Project Management)
Elliot Bay Design Group =	\$ 465,641	(Vessel Design & PS&E Package)
EBDG Bid Support	\$ 31,182	
EBDG Lofting	\$ 71,182	
EBDG Floating Docks	\$ 45,667	
PB	\$ 954,364	(Transit & Landward Design & PS&E P
RK&K	\$ 402,500	(Project Management & Inspection)
	\$ 2,070,536	
Funding - Prof Fees =	\$ 7,049,752	

Hatteras Improvements:		Based on A&E Estimates
Grading & EC	\$ 38,500	
Parking Lot (resurfacing & striping) =	\$ 115,000	
New Passenger Parking	\$ 85,000	
New Employee Parking Lot =	\$ 45,000	
Passenger Waiting Amenities =	\$ 325,154	
Floating Dock =	\$ 350,000	
Ferry Utilities	\$ 20,000	
Signage =	\$ 2,000	
Mobilization & Contingencies	\$ 85,000	
	\$ 1,065,654	

Ocracoke Improvements:		Based on A&E Estimates
Grading & EC	\$ 4,000	
Passenger Pickup/Drop-Off =	\$ 10,000	
Passenger Waiting Amenities =	\$ 313,463	
Utility Improvements	\$ 10,000	
Bathroom Improvements =	\$ 105,230	
Floating Dock =	\$ 350,000	
Signage =	\$ 2,000	
Mobilization & Contingencies	\$ 20,000	
	\$ 814,693	

Ocracoke Transit Improvements:		Based on Estimates
Passenger Vehicle Purchase (4 @ \$35,000 each) =	\$ 140,000	
Signage =	\$ 26,000	
	\$ 166,000	

Passenger Ferry Vessel =	\$ 4,470,716	Armstrong Marine Contract
	\$ 4,470,716	

Ticketing System = \$ 150,000

Remaining Funds = \$ 382,689

Marketing and Communications

- Press Releases
- Earned Media
- Video
- Social Media
- Tourism Trade Shows
- Rack Cards
- Promotions

Local Input

Stakeholders Committee Established

Kick Off Meeting Scheduled for October 18th

- Dare | Hyde | Carteret | NC Tourism
- Ocracoke Business Community
- Cottage Rental Agencies
- National Park Service | Scenic Byway

PIEDMONT & CAROLINIAN PERFORMANCE SNAPSHOT

NCDOT RAIL DIVISION for the Month of JULY 2017

Ridership

	FFY17 JUL	FFY16 JUL	Δ	FFY17 YTD	FFY16 YTD	Δ
Carolinian	27,833	28,854	-4%	232,114	238,930	-3%
Piedmont	12,839	12,809	0.2%	122,487	127,816	-4%
Total	40,672	41,663	-2%	354,601	366,746	-3%

Number of Trains

Average Number of Passengers per Train

FFY17 JUL	FFY16 JUL	Service	FFY17 JUL	FFY16 JUL	Δ
60	60	Carolinian	464	481	-4%
120	124	Piedmont	107	103	4%

Revenue

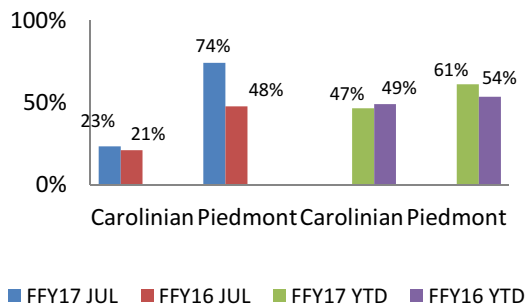
	FFY17 JUL	FFY16 JUL	Δ	FFY17 YTD	FFY16 YTD	Δ
Carolinian	\$1,914,171	\$2,008,241	-5%	\$14,715,037	\$15,037,178	-2%
Piedmont	\$261,209	\$261,292	-0.03%	\$2,617,066	\$2,701,046	-3%
Total	\$2,175,380	\$2,269,533	-4%	\$17,332,103	\$17,738,224	-2%

Amenities & Vending

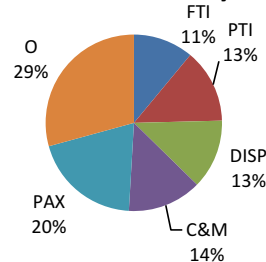
Mo. Surcharge + Vending Income	\$19,995	Mo. Expense	\$3,591	Mo. Surplus	\$16,404
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July 2017 service modifications impacted 4 Piedmont trains and 2 Carolinian trains. On July 19, all Piedmont and Carolinian trains were cancelled due to PIP track work. Disruptions for PIP project work will continue to occur as necessary through completion of the project, but PIP track outages are anticipated to reduce significantly after July 2017. Average gasoline prices remained low in July 2017 but were \$0.04 per gallon higher than in July 2016.

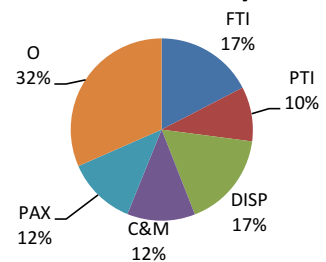
On-time Performance



Carolinian Delays



Piedmont Delays



*Carolinian and Piedmont delays were 8,456 and 2,781 minutes, respectively. FTI - Freight Train Interference; PTI - Passenger Train Interference; DISP - Dispatch Related; C&M - Construction, Maintenance; PAX - Any Passenger Related; O - All Other Delays (e.g. weather, mechanical). Carolinian trains arriving within 20 minutes and Piedmont trains within 10 minutes of schedule are considered on time.

Overall Customer Satisfaction

	FFY17 JUN	FFY16 YEAR-END	Δ
Carolinian	69%	75%	-6%
Piedmont	95%	90%	5%

*The customer satisfaction index (eCSI) is calculated from rider survey data conducted on line and is for one month prior to the current report month. Overall satisfaction is defined as average scores greater than or equal to 80. Customer satisfaction goals for FFY 2017 were 75% for the Carolinian and 90% for the Piedmont. Overall June eCSI for all Amtrak services was 77%.

North Carolina City Pairs with Largest Ridership

	Carolinian	Piedmont
1	Raleigh - Washington	Charlotte - Raleigh
2	Charlotte - Raleigh	Charlotte - Cary
3	Charlotte - Washington	Charlotte - Durham
4	Durham - Washington	Charlotte - Greensboro
5	Charlotte - New York	Greensboro - Raleigh
6	Greensboro - Washington	Cary - Greensboro
7	New York - Raleigh	Durham - Greensboro
8	Cary - Washington	Charlotte - HighPoint
9	Charlotte - Durham	Durham - Raleigh
10	Durham - New York	Cary - Durham

*Of the ten city pairs with the highest ridership, from the previous FFY month Durham - New York had the largest increase of 22% and Charlotte - New York the largest decrease of 18% for the Carolinian; Durham - Raleigh had the largest increase of 41% and Charlotte - Cary the largest decrease of 9% for the Piedmont. Highlights indicate increased ridership from July 2016 for the station pairs.

Carolinian and Piedmont Total Ons-Offs at North Carolina Stations

	FFY17 JUL	FFY16 JUL	Δ
Charlotte	13,129	14,065	-7%
Raleigh	9,976	10,339	-4%
Greensboro	text-align: center;">7,973	7,960	text-align: center;">0.2%
Durham	6,381	6,471	-1%
Cary	5,348	5,370	-0.4%
Wilson	2,912	3,163	-8%
High Point	2,481	2,639	-6%
Burlington	text-align: center;">2,153	1,982	text-align: center;">9%
Salisbury	text-align: center;">1,997	1,721	text-align: center;">16%
Rocky Mount	1,960	2,006	-2%
Kannapolis	1,659	1,769	-6%
Selma-Smithfield	848	855	-1%

*The values represent passenger ons and offs at North Carolina stations for only state-supported routes and do not include those of other Amtrak services. The values should not be construed as total ridership.

North Carolina Train Host Association

	FFY17 JUL	FFY17 YTD
Train Host Volunteer Hours	text-align: center;">1,038	text-align: center;">8,827

Go. Reconnect.





MULTI MODAL COMMITTEE PUBLIC TRANSPORTATION DIVISION REPORT

BOARD OF TRANSPORTATION
OCTOBER 4, 2017

PROJECTS (Provide status/update for top 3-5 projects in respective mode)

- PTD Training Conference – our annual training conference was held at the UNC Friday Center on September 25-27, 2017. The program included NCDOT leadership from other areas such as: Office of Civil Rights, SPOT office, Division 5, RPOs, Enterprise Business Services and Transportation Planning Branch. Some of the hot topics featured **at this year's conference** were: Human Trafficking, Active Shooter, FTA urban roundtable, CTP 2.0, P5 scoring and local input points, Being Prepared for Natural Disasters, Building a High Performing Team, FTA Drug and Alcohol Accountable Executive Requirements, Being a Champion of DBE Expectations, Ethics and Transparency and many more informative sessions. There were 197 registrants representing 17 urban and 72 rural transit systems.
- Preparing for Proficiency Reviews – in an effort to streamline oversight activities, PTD has rated systems based on risk shown in earlier reviews. We have also combined a couple of activities and created triggers for when additional technical assistance is needed. Training of our consultant partners and staff was held in early September.
- Cost Allocation – in an effort to get funding to transit systems on the fringe of urban areas, PTD has agreed to be the recipient of the urban funds for these subrecipients. This is the most complicated group of subrecipients based on the federal tracking of service delivery. PTD has created a cost allocation model and continues to provide training and technical assistance to them. The latest training was in September 13, 2017.

BUDGET UPDATES (Provide budget reporting pertinent to respective mode)

- Agreements are being issued and other allocations processed

ANNOUNCEMENTS

(Share updates on announcements/upcoming events in respective mode)

NEW

- The North Carolina Public Transportation **Division's** first Innovation Award was given to Mountain Mobility/Buncombe County for on time performance incentive program.

UPCOMING

- Strategic Technical and Executive Committees – November 7, 2017

MEETINGS ATTENDED (List any key meetings attended this month)

Meetings attended / presentations made:

- Strategic Plan Technical Committee and consultant leadership 9/8/17, 9/14/2017
- TRB State Visit 9/19/17
- Go Triangle Workgroup for Durham Orange Light Rail 9/20/17
- EcoPRT Research Project site visit 9/29/17 <http://ecoprt.com/>
- North Carolina Institute of Medicine – Accountable Care Communities 9/25/17



MULTI MODAL COMMITTEE RAIL DIVISION REPORT

BOARD OF TRANSPORTATION OCTOBER 4, 2017

PROJECTS (Provide status/update for top 3-5 projects in respective mode)

- Capital Yard South Lead
 - The preconstruction meeting with selected contractor Civil Works Contracting of Wilmington is set for 9/26/2017. The contractor is expected to mobilize this first week of October.
- Charlotte Gateway Station Phase 1
 - Two agreements between the City of Charlotte, the Department, and Norfolk Southern will go to the October Board: 1) Charlotte Gateway Track and Structures Construction Agreement (CGSTCA); and 2) Charlotte Gateway Station Track Maintenance Agreement (CGSTMA). The Agreements define the terms under which the infrastructure will be paid for, construction roles and responsibilities, and City maintenance responsibility.
- Raleigh Union Station
 - The Lease from the City of Raleigh to the Department, and the Sublease from the Department to Amtrak, will go to the Board in November. Under the Lease, the Department will pay an annual fee of \$232,350 per year to the City. Under the Sublease, Amtrak will pay an annual fee of approximately \$50,000 to the Department, which represents the non-State-supported portion of the Lease for Silver Star service costs.
- Infrastructure for Rebuilding America (INFRA) & Transportation Investment Generating Economic Recovery (TIGER) Grants
 - DOT will prepare and submit INFRA grant applications for 3 large projects (>\$100M) to USDOT. There will be 2 Highway projects and 1 Rail project. The INFRA grant application deadline is November 2, 2017. The Rail Division will submit 2 TIGER grant applications, and the Public Transportation Division will submit 1 TIGER grant application. The TIGER grant application deadline is October 16, 2017.
 - The Rail Division will prepare and support INFRA and TIGER grant application for submittals from the Metropolitan Planning **Organization's** and/or County.

BUDGET UPDATES (Provide budget reporting pertinent to respective mode)

- There are no budget updates at this time.



MULTI MODAL COMMITTEE RAIL DIVISION REPORT

ANNOUNCEMENTS

(Share updates on announcements/upcoming events in respective mode)

NEW

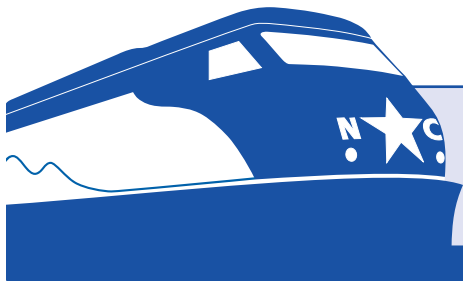
UPCOMING

- Passenger Information Display Systems (PIDS)
 - An agreement between the Department and Amtrak for PIDS at three stations in Cary, Durham and Burlington will go to the Board in November. The Agreement was previously approved by the Board in 2016 using American Recovery and Reinvestment Act (ARRA) funds. The November Board action will call for using State funds.
- 2017 FEDERAL RAILROAD ADMINISTRATION RAIL PROGRAM DELIVERY
WASHINGTON, DC
NOVEMBER 30-DECEMBER 1, 2017
- Southeast Regional Rail Plan
Raleigh, NC
(November 6-7, 2017)
- Northeast Corridor (NEC) Commission
Maryland DOT
(October 13, 2017)
- Federal Railroad Administration – **“States As Railroads” Meeting**
Washington, DC
October 30, 2017

MEETINGS ATTENDED (List any key meetings attended this month)

Meetings attended

- Global Appalachia (Sept. 12-13, 2017)
- Standing Committee on Rail Transportation (SCORT) (Sept. 18-21, 2017)
- American Railway Engineering and Maintenance-of-Way Association (AREMA) (Sept. 18-20, 2017)
- Western North Carolina Railroads & Regional Economic Development Conference (Sept. 22, 2017)



NCDOT Rail Division

The Rail Report



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919-707-4700

October 2017

Central Carolina Connector Update

NCDOT is partnering with CSX to construct an intermodal transfer hub and intermodal facility along the CSXT A-Line in Rocky Mount to benefit goods movements in and out of central and eastern North Carolina. Intermodal transportation moves freight in a container without any handling of the freight itself when changing modes. Intermodal transport allows shippers to combine the long-haul efficiencies of rail with the flexibility of short-haul trucks to achieve cost-effective, efficient and reliable freight transport. Those savings benefit North Carolina businesses and industries.

The facility in Rocky Mount will be the second intermodal hub of its kind in the eastern US (the first in Northwest Ohio). In addition to typical intermodal transfers from trucks to trains, the facility will serve as a rail hub where containers are switched between trains to and from destinations through CSX's network.

The project includes the construction of the CCX intermodal hub terminal, construction of approximately seven miles of second mainline along the CSX A-Line, north of the terminal, and some limited highway improvements.

In total, the project is anticipated to cost \$264 million. NCDOT is contributing \$100 million in capital for the project and has provided \$10 million for preliminary engineering. The state funding is included in the Transportation Improvement Program as TIP Project P-5711.

Project Benefits

- CCX provides shipper savings and access to domestic and international markets to existing industries and businesses in the Triangle and eastern North Carolina.
- CCX provides intermodal rail access to the Port of Wilmington and intermodal access in eastern NC.
- CCX will provide public benefits to both the state and nation. The benefits include less pavement maintenance, reduced traffic congestion, improved emissions, and fewer vehicular accidents. On their website, CSX notes that intermodal transportation can save shippers up to 40% on their transportation costs.
 - \$1.77B in public benefits to the US over 30 years
 - \$310M in public benefits to NC over 30 years
- CCX expects to process 240,000 to 505,000 containers per year over the next 20 years.
- CCX anticipates processing of more than 270,000 truckloads coming into the facility, after a four-year ramp up period.



- It eliminates nearly 194 million truck-miles from the nation's highways and 16 million truck-miles from North Carolina's highways.
- Over 30 years, CCX is anticipated to reduce truck-miles by over 7.3 billion miles.

Jobs and Economic Impact

- CCX will provide ongoing employment for 109 people in its opening year, 149 people by 2023, and 236 people by 2035
- The economic output in the first year would reach \$33.9M and \$684M by 2035.
- Economic impacts for areas surrounding CCX can be maximized through comprehensive planning. Once development reaches its full potential in ten to 15 years, CCX is anticipated to generate between 8,000 and 20,000 jobs. A Freight Strategic Master Plan is currently being prepared by the NCDOT Rail Division and Carolinas Gateway Partnership to help guide economic development and transportation needs surrounding CCX.

Project Schedule

- CSX is leading the design, environmental, and permitting process. NCDOT will review designs, environmental documents and permits.
- CSX is planning to open the facility for operation in late 2019; schedules are contingent on applicable local, state, and federal permits and approvals.

October Railroad Trivia Question

Who was the engineer of the first train into Raleigh and what was the name of the locomotive?

(See answer on page 6)

Fibertex Personal Care to Open Manufacturing Plant in Asheboro

Fibertex Personal Care, a Danish textile company, will add 145 jobs in Asheboro with its first U.S. manufacturing facility, Governor Cooper announced today. The company plans to invest \$60 million by December 31, 2021 with a project facilitated in part by a Job Development Investment Grant (JDIG). The Rail Division will invest \$200,000 towards the construction of a \$900,000 industrial spur track through the Rail Industrial Access Program.

“Fibertex Personal Care could go anywhere in the world, but they chose North Carolina,” said Governor Cooper. “Our state’s workforce and leadership in manufacturing and textiles brought this company here.”

Fibertex Personal Care manufactures nonwoven materials for different applications in the personal care industry, including

diapers, feminine hygiene and incontinence care products.

“Fibertex Personal Care chose the right location in Asheboro for its first facility on U.S. soil,” said Senator Jerry W. Tillman. “I’m proud to welcome the company to our community.”

“The people of Randolph County are ready to welcome the Fibertex Personal Care people and get to work,” said Representative Pat B. Hurley. “Fibertex chose to locate here in Asheboro over any place in America, and we couldn’t be more excited.”

Partnering with N.C. Commerce and the EDPNC on this project were the N.C. General Assembly, the N.C. Community College System, the North Carolina Railroad Company, the City of Asheboro, Randolph County, the Randolph County Economic Development Corporation, Duke Energy and Norfolk Southern.

NCDOT and Blue Ridge Southern Railroad Make Safety Improvements at Crossings

The NCDOT Rail Division and Division 14 recently collaborated to improve two crossings on the Blue Ridge Southern Railroad in Jackson County, N.C. The first crossing improvement was Mineral Springs Road, SR 1456, where a two track timber and asphalt crossing was replaced with a rubber and asphalt crossing. This crossing has heavy truck traffic to a nearby industry and daily school bus use. The new surface provides a significantly improved and smoother crossing for highway traffic.

The second crossing improvement was on Dark Ridge Road, SR 1705. This single track timber and asphalt crossing was also changed to a rubber and asphalt crossing. The timbers were deteriorated, resulting in a rough ride for the motorists and school buses that used this crossing. The new surface will provide motorists with a smooth ride for many years to come.



Mineral Springs Road before improvements



Mineral Springs Road after improvements



Dark Ridge Road before improvements



Dark Ridge Road after improvements

Rail Operations Manager Kyle Anderson Receives Prestigious Safety Certification



Matthew D. Thompson, Safety and Health Council Marketing & Public Relations Manager, presents MESH certificate to Kyle Anderson (right).

Kyle O. Anderson, Rail Operations Manager for the Rail Division, has earned the Public Sector - Manager of Environmental, Safety and Health (MESH) certification which is awarded to individuals who demonstrate achievement through education in occupational safety, health, and the environment. MESH is sponsored by the Safety and Health Council of North Carolina, NC State University, and the North Carolina Department of Labor.

"We are tremendously happy to recognize Kyle as a recipient of the Public Sector Manager of Environmental, Safety and Health certificate," said North Carolina's Commissioner of Labor Cherie Berry. "This program prepares managers for keeping their worksites safe and healthy, and that preparation improves employee protection and company productivity."

The MESH program is designed to increase the professionalism of environmental, safety and health managers of commercial, residential or governmental construction sites in North Carolina through a rigorous series of continuing education programs. It strives to recognize environmental managers and raise industry standards, while increasing the value of these practitioners to their employers and others to whom their services are provided.



Visit Safety City at the 150th State Fair and Learn About Rail Safety

NCDOT Rail Division staff, along with Operation Lifesaver, will be on hand to share information about staying safe near railroad tracks for drivers and pedestrians, from Oct. 12-22 at the state fairgrounds.



All Aboard for the Lexington Barbecue Festival!



Are you ready for a day filled with barbecue, live music and family friendly attractions?

On **OCTOBER 28**, board NC By Train at any of the 7 stops between Charlotte and Raleigh to arrive just steps from the festival!

SAVE 15% ON TICKETS
Visit Amtrak.com/ncsave15
(Use city code LEX)

➔ **Go. Reconnect.**
NCBYTRAIN.ORG



Ridership & Revenue on NC By Train Service – *July 2017 vs. 2016

Icon	RIDERSHIP			REVENUE		
	2017	2016	% +/-	2017	2016	% +/-
	12,839	12,809	0.2%	\$261,209	\$261,292	-0.03%
	27,833	28,854	-4%	\$1,914,171	\$2,008,241	-5%

1,038



Hours Volunteered by N.C. Train Hosts in July, supporting NC By Train onboard and at events

July 2017 service modifications impacted four *Piedmont* trains and two *Carolinian* trains. On July 19, all *Piedmont* and *Carolinian* trains were cancelled due to PIP track work. Track outages are anticipated to reduce significantly as PIP track construction is now complete. Average gasoline prices remained low in July 2017 but were \$0.04 per gallon higher than in July 2016.

Score a Touchdown by Riding NC By Train to Panther Games

It's time for football! Get on board the train with other fans on the way to the game and skip the hassle of traffic and parking.

Back by popular demand for the 2017 football season, NC By Train is hosting its Panthers train to carry fans to and from select home games in Charlotte.

Passengers headed to the 1 p.m. Sunday games on the dates listed below can take *Piedmont Train 73* from any of the eight stations along the corridor to Charlotte and return on *Piedmont Train 76* at 5:15 p.m.

Nov. 5, Dec. 10, Dec. 17, Dec. 24

Tickets can be purchased now online at NCbyTrain.org.



The Charlotte Area Transit System is picking up passengers at the Charlotte station and dropping them off a few blocks from Bank of America Stadium. Passengers can request a transit pass from the conductor to travel from the Charlotte train station to the transportation center. The pass is valid for one ride and one transfer.

Out and About with NC By Train



Save Time and Money

Save 20%
over buying individual tickets

with a Multi-Ride Pass!

Go. Reconnect.

Buy yours today at NCBYTRAIN.ORG/TICKETS



Alison Boswell from the Rail Division Customer Service Team attended the Queen City Battle of the Bands and did tablings at four Historically Black Colleges and Universities (HBCU) - Johnson C. Smith, Livingston, Winston-Salem State, and North Carolina Central - to spread the word about NC By Train service and the benefits of the Multi-Ride Pass.

College students, families, and frequent travelers can save both time and money with a multi-ride pass for NC By Train. No reservations needed—skip the ticket line!

- Just hop on board and show your e-Ticket to the conductor
- Good for 10 rides (5 round trips) between paired cities
- Valid for 6 months from your first trip.

Raleigh Union Station Construction Photos – August 2017



View of south elevation with passenger concourse (center of photo), and footings for high-level center island platform (left center of photo)



South elevation detail

Charlotte Locomotive Railcar and Maintenance Facility Photos – August 2017



Front entrance of Charlotte Locomotive and Railcar Maintenance Facility office building



Grading work at rail yard side of office building

October Railroad Trivia Answer: Albert Johnson was NC's first locomotive engineer and the first person to bring a train into Raleigh, March 21, 1840. The name of the locomotive was the "Tornado." Mr. Johnson rose through the ranks to become the Master Mechanic and Superintendent of both the NCCR and the Raleigh & Gaston RR.



ROAD/BRIDGE/FERRY NAMING COMMITTEE AGENDA

BOARD OF TRANSPORTATION
OCTOBER 4, 2017

TIME: 11:00 AM

LOCATION: Room 160

TOPIC	PRESENTER	TIME
Call to Order Roll Call Declaration of Quorum Non-Conflict Statement Approval of September 2017 Road/Bridge/Ferry Naming Committee Meeting Minutes	Mike Fox, Chair	11:00 AM
Championship Sign Discussion	Kevin Lacy	11:05 AM
Logo Panel Discussion	Kevin Lacy	11:15 AM
Adjourn	All	11:30 AM