## MEETING AGENDA



North Carolina Board of Transportation 1 South Wilmington Street, Raleigh, North Carolina 27601 September 6-7, 2017

## WEDNESDAY, September 6, 2017

10:45AM **-**11:15AM

Audit Committee		Room 160
11:15AM <b>–</b> 11:45AM		
Road, Bridge & Ferry Nam	ning Committee	Room 160
11:45AM <b>–</b> 1:00PM	BREAK	
1:00PM <b>–</b> 2:10PM	WORK SESSION - FULL BOARD ATTEND	ANCE ROOM 150
Division 1 Update		Board Member Allen Moran and Jerry Jennings
NC State Freight Plan		Charles Edwards
FY18 Maintenance Alloca	tions	Patrick Norman
Board Reimbursement Up	odate	Chairman Fox
Chief Financial Officer Up	date	Chairman Fox
Product Evaluation Aware	ness	Chairman Fox
2:10PM <b>–</b> 2:20PM	BREAK	
2:20PM <b>–</b> 3:40PM		
Highway Committee		Room 150
Multi-Modal Committee		EIC
3:40PM <b>–</b> 3:50PM	BREAK	
3:50PM <b>–</b> 5:10PM		
Economic Development/Ir	ntergovernmental Relations (EDIR) Committee	Room 150
		†

5:10PM

Funding Appropriations and Strategies (FAST) Committee

**ADJOURN** 

EIC

Location: Room 150

#### NORTH CAROLINA BOARD OF TRANSPORTATION MEETING

Chairman Fox Call to Order **Ethics Statement** Chairman Fox Chairman Fox Approval of August 3, 2017 Board Meeting Minutes Road and Bridge Naming Honorary Designation Chairman Fox Secretary Trogdon Secretary's Remarks "Roadeo" Update Robin Barfield

#### INFORMATION AND DELEGATED AUTHORITY

(Item C)	Award of Highway Construction Contracts from May 2017 Letting
(Item D)	Award of Contracts to Private Firms for Engineering Services
(Item E)	Approval of Funds for Secondary Road Improvement Projects- Highway Fund and Highway Trust Fund
(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

Hurricane Recovery Update

Dempsey Benton Special Assistant to the Governor, Hurricane Recovery

Unmanned Aircraft System (UAS) Update

**Bobby Walston** 

Chairman Fox **ACTION** 

NC State Freight Plan

Resolution for Comments Pertaining to Fiscal and Regulatory Impact Analysis on Rules

#### Approval of Projects

(Item G)	Additions and Abando	Additions and Abandonments to State Secondary Road System			
(Item I)	Public Transportation	Program			
	<ul><li>(Item I-1)</li></ul>	Public Transportation			
	<ul> <li>(Item I-1A)</li> </ul>	Public Transportation			
	<ul><li>(Item I-2)</li></ul>	Rail Program			
	• (Item I-4)	Aviation			
(Item K)	North Carolina Highw	ay Trust Funds			

(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 S)	Maintenance Allocations

Submission of Comprehensive Transportation Plans for Mutual Adoption by the Board of (Item T)

Transportation

Committee Reports Committee Chairs

Other Business Chairman Fox

Adjourn Chairman Fox

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

## **September 6-7, 2017**

Delegated	AuthoritySecretary Trogdor
(Item C)	Award of Highway Construction Contracts from August 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
(Item H)	Funds for Division-wide Small Construction, Statewide Contingency, Public Access, and Economic Development
(Item L)	Funds for Specific Spot Safety Improvement Projects
Action	Chairman 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
(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**

## **August 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.

AUGUST 15, 2017 DIVISION 00002

C204051

2017CPT.02.16.10521.1, 2017CPT.02.17.10541.1 STATE FUNDED JONES, LENOIR

PROPOSAL LENGTH 11.510 MILES

TYPE OF WORK MILLING, RESURFACING & SHOULDER RECONSTRUCTION.

LOCATION 4 SECTIONS OF US-70 & RAMPS.

EST CONST PROGRESS.... FY-2018..86% OF BID

FY-2019..14% OF BID

RPN 001 2 BIDDER(S) MBE GOAL 3.00 % WBE GOAL 4.00%

ESTIMATE 6,799,925.54

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ITEM C

DATE AVAILABLE SEP 25 2017

INTER COMPLETION OCT 01 2018 COMPLETE ALL WORK EXCEPT PLANTING, REFORESTATION, OR

PERMANENT VEGETATION ESTABLISHMENT

FINAL COMPLETION DEC 30 2018

\$ TOTALS % DIFF

BARNHILL CONTRACTING COMPANY ROCKY MOUNT, NC 6,473,750.08 -4.8 S T WOOTEN CORPORATION WILSON, NC 7,792,674.13 +14.6

# HIGHWAY LETTING NORTH CAROLINA DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS

RALEIGH N.C. AUGUST 15, 2017 DIVISION 00003

C204052

2018CPT.03.02.10821, 2018CPT.03.02.20821, 2018CPT.03.02.20822 STATE FUNDED SAMPSON

PROPOSAL LENGTH 70.461 MILES

TYPE OF WORK MILLING, RESURFACING, SHOULDER RECONSTRUCTION & SIGNALS.

LOCATION 2 SECTIONS OF US-701, 1 SECTION OF US-13 AND NC-242, AND 11 SECTIONS OF

SECONDARY ROADS.

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

FY-2019..23% OF BID

RPN 002 1 BIDDER(S) MBE GOAL 4.00 % WBE GOAL 5.00%

ESTIMATE 13,738,106.21

DATE AVAILABLE SEP 25 2017 FINAL COMPLETION NOV 30 2018

\$ TOTALS % DIFF

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BARNHILL CONTRACTING COMPANY ROCKY MOUNT, NC 14,245,982.96 +3.7

## HIGHWAY LETTING

## NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

## DIVISION OF HIGHWAYS

RALEIGH N.C. AUGUST 15, 2017

DIVISION 00004

C203944 38542.3.1 STATE FUNDED JOHNSTON B-4770

PROPOSAL LENGTH 0.195 MILES

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

LOCATION BRIDGE #32 OVER HANNAH CREEK ON SR-1185.

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

RPN 003 9 BIDDER(S) MBE GOAL 2.00 % WBE GOAL 3.00%

ESTIMATE 974,771.41

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ITEM C

DATE AVAILABLE SEP 25 2017

INTER COMPLETION JUL 01 2018 COMPLETE ALL WORK EXCEPT PLANTING, REFORESTATION, OR

PERMANENT VEGETATION ESTABLISHMENT

FINAL COMPLETION DEC 28 2018

	\$ TOTALS	% DIFF
UNITED CONTRACTORS, INC. DBA UNITED CONTRACTORS INC. OF IOWA JC	917,584.90	-5.9
S T WOOTEN CORPORATION WILSON, NC	927,151.02	-4.9
SLOAN CONSTRUCTION A DIVISION OF REEVES CONSTRUCTION COMPANY	954,185.94	-2.1
DANE CONSTRUCTION INC MOORESVILLE, NC	962,459.22	-1.3
FSC II LLC DBA FRED SMITH COMPANY RALEIGH, NC	983,000.00	+0.8
SANFORD CONTRACTORS INC LEMON SPRINGS, NC	1,053,700.00	+8.1
PALMETTO INFRASTRUCTURE INC GREENVILLE, SC	1,075,125.35	+10.3
DELLINGER, INC. MONROE, NC	1,240,376.53	+27.2
ENGLISH CONSTRUCTION CO INC LYNCHBURG, VA	1,461,666.32	+49.9

# HIGHWAY LETTING NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

## DIVISION OF HIGHWAYS

RALEIGH N.C.

AUGUST 15, 2017 DIVISION 00007

C203945 40242.3.1 BRSTP-2600(1) ROCKINGHAM B-4964

PROPOSAL LENGTH 0.246 MILES

TYPE OF WORK GRADING, DRAINAGE, PAVING & STRUCTURES.

LOCATION BRIDGE #85 OVER SOUTHERN RAILROAD ON SR-2600 (MIZPAH CHURCH ROAD).

EST CONST PROGRESS.... FY-2018..81% OF BID FY-2019..19% OF BID

RPN 004 4 BIDDER(S) DBE GOAL 4.00 %

ESTIMATE 2,123,016.73

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ITEM C

DATE AVAILABLE SEP 25 2017

INTER COMPLETION NOV 01 2018 COMPLETE ALL WORK EXCEPT PLANTING, REFORESTATION, OR

PERMANENT VEGETATION ESTABLISHMENT

FINAL COMPLETION APR 30 2019

	\$ TOTALS	% DIFF
SMITH-ROWE, LLC MOUNT AIRY, NC	1,978,225.30	-6.8
HAYMES BROTHERS, INC. CHATHAM, VA	2,026,046.73	-4.6
BURLEIGH CONSTRUCTION COMPANY INC CONCORD, VA	2,281,427.01	+7.5
ENGLISH CONSTRUCTION CO INC LYNCHBURG, VA	2,677,924.48	+26.1

# HIGHWAY LETTING NORTH CAROLINA DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH N.C.

AUGUST 15, 2017 DIVISION 00008

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ITEM C

C204046 2018CPT.08.02.10191, 2018CPT.08.02.20191 STATE FUNDED

CHATHAM

PROPOSAL LENGTH 24.490 MILES

TYPE OF WORK MILLING, RESURFACING, AND SHOULDER RECONSTRUCTION.

LOCATION 4 SECTIONS OF US-64 AND 2 SECTIONS OF SECONDARY ROADS.

EST CONST PROGRESS.... FY-2018..81% OF BID FY-2019..19% OF BID

RPN 005 2 BIDDER(S) MBE GOAL 3.00 % WBE GOAL 4.00%

ESTIMATE 5,979,621.82

DATE AVAILABLE SEP 25 2017
FINAL COMPLETION NOV 01 2018

\$ TOTALS % DIFF \$ T WOOTEN CORPORATION WILSON, NC 5,588,098.19 -6.5 RILEY PAVING INC CARTHAGE, NC 5,619,639.94 -6.0

# HIGHWAY LETTING NORTH CAROLINA DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH N.C. AUGUST 15, 2017

DIVISION 00011

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C204081 17BP.11.R.143 STATE FUNDED YADKIN

PROPOSAL LENGTH 0.087 MILES

TYPE OF WORK EXPRESS DESIGN BUILD.

LOCATION REPLACEMENT OF 1 BRIDGE IN YADKIN COUNTY.

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

RPN 006 3 BIDDER(S) MBE GOAL 1.00 % WBE GOAL 3.00%

ESTIMATE 1,599,634.00

DATE AVAILABLE SEP 25 2017
FINAL COMPLETION MAY 15 2018

\$ TOTALS % DIFF
JAMES R VANNOY & SONS CONSTRUCTION COMPANY INC JEFFERSON, NC 1,359,457.08 -15.0
EASTERN STRUCTURES LLC MOCKSVILLE, NC 1,362,640.00 -14.8
CROWDER CONSTRUCTION COMPANY CHARLOTTE, NC 2,154,000.00 +34.7

ESTIMATE TOTAL 31,215,075.71

LETTING TOTAL 30,563,098.51 -2.1

#### **NCDOT September 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 Deputy Secretary**

#### **Multi-Modal Transportation**

#### Ferry

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 Passenger-Only Ferry Implementation and Operations, and Related Services on an as needed basis for various federalaid and state funded projects to support the Ferry Division. These contracts will expire two (2) years; with up to three (3) one-year extensions 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. This is for information only.

#### **STATEWIDE**

Description of Work: 2017 Passenger-Only Ferry Implementation

and Operations, and Related Services LSC HMS Consulting & Technical, LLC, Seattle, WA

Maximum Engineering Fee: \$2.500,000,00

SPSF Utilization: 0%

#### Rail

Firm:

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 General Rail Engineering Services on an as needed basis for various federal-aid and state funded projects to support the Rail Division. These contracts will expire 3 years 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 General Rail Engineering Services LSC AECOM Technical Services of North Carolina. Firm:

Inc. Chicago, IL \$3,500,000.00

Maximum Engineering Fee: DBE/WBE/SPSF Utilization: CH Engineering PLLC

5% / \$175,000.00

Description of Work: 2017 General Rail Engineering Services LSC Alfred Benesch & Company, Charlotte, NC

Maximum Engineering Fee: \$2.500.000.00

SPSF Utilization:

R. L. Banks & Associates Inc.

5% / \$125.000.00

SPSF Utilization: Carolina Transportation Engineers &

> Associates, PC 6% / \$150,000.00

Wetherill Engineering, Inc. DBE/WBE/SPSF Utilization:

7% / \$175,000.00

SPSF Utilization: Sungate Design Group PA

5% / \$125.000.00

Description of Work: 2017 General Rail Engineering Services LSC

Atkins North America Inc., Atlanta, GA Firm:

\$5,500,000.00

SPSF Utilization: 0%

Maximum Engineering Fee:

Maximum Engineering Fee:

Firm:

Description of Work: 2017 General Rail Engineering Services LSC

Carolina Transportation Engineers &

Associates, PC, Belmont, NC

Maximum Engineering Fee: \$2,500,000.00

100% SPSF Utilization:

2017 General Rail Engineering Services LSC Description of Work:

Crouch Engineering Inc., Brentwood. TN Firm:

\$3,000,000.00

SPSF Utilization: 0%

2017 General Rail Engineering Services LSC Description of Work:

Dewberry Engineers Inc., Raleigh, NC Firm:

Maximum Engineering Fee: \$1.500.000.00

DBE/WBE/SPSF Utilization: CH Engineering PLLC

4% / \$60,000.00

Description of Work: 2017 General Rail Engineering Services LSC

Firm: HDR Engineering Inc. of the Carolinas,

Chicago, IL

Maximum Engineering Fee: \$5.500.000.00

SPSF Utilization: Hinde Engineering Inc. 3% / \$165,000.00

Description of Work: 2017 General Rail Engineering Services LSC

Firm: HNTB of North Carolina, PC, Raleigh, NC

Maximum Engineering Fee: \$7,500,000.00

SPSF Utilization: Hinde Engineering Inc. 5% / \$375,000.00

DBE/MBE/SPSF Utilization: MA Engineering Consultants Inc.

> 5% / \$375,000.00 Falcon Engineering Inc.

DBE/WBE/SPSF Utilization: 5% / \$375,000.00

2017 General Rail Engineering Services LSC Description of Work:

0%

Jacobs Engineering Group Inc., Cary, NC Firm:

Maximum Engineering Fee: \$2,500,000.00

SPSF Utilization:

Description of Work: 2017 General Rail Engineering Services LSC

Moffatt & Nichol, Inc., Raleigh, NC Firm:

\$2.500.000.00 Maximum Engineering Fee:

Davis-Martin-Powell & Associates Inc. SPSF Utilization:

> 10% / \$250.000.00 Falcon Engineering Inc. 10% / \$250,000.00

SPSF Utilization: KPR Engineering, PLLC

5% / \$125,000.00

Description of Work: 2017 General Rail Engineering Services LSC Firm:

Mott MacDonald I&E LLC, Pittsburgh, PA

Maximum Engineering Fee: \$10.000.000.00

SPSF Utilization: Axiom Environmental, Inc.

1% / \$100,000.00

SPSF Utilization: Sungate Design Group PA

1% / \$100,000.00

DBE/WBE/SPSF Utilization: Wetherill Engineering, Inc.

2% / \$200,000.00

Description of Work: 2017 General Rail Engineering Services LSC

Simpson Engineers & Associates PC, Cary, Firm:

NC

\$8,000,000.00 Maximum Engineering Fee:

DBE/MBE/SPSF Utilization: 100%

2017 General Rail Engineering Services LSC Description of Work:

Firm: Volkert Inc, Birmingham, AL

Maximum Engineering Fee: \$10,000,000.00

SPSF Utilization: 0%

#### **Transportation Planning Branch**

DBE/WBE/SPSF Utilization:

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 a Comprehensive Transportation Plan Report Template and Content Audit on an as needed basis for various federal-aid and state funded projects to support the Transportation Planning Branch. These contracts will expire four (4) months; and one (1) extension of equal time 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. This is for information only.

#### **STATEWIDE**

Description of Work: 2017 Comprehensive Transportation Plan

> Report Template and Content Audit LSC Information Mapping, Inc., Quincy, MA

Firm: \$75,000.00 Maximum Engineering Fee:

SPSF Utilization: 100%

#### 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-5968 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 5**

Project: 45982.1.1 (U-5968) Durham County

City of Durham Upgrade ITS / Signal System

Scope of Work: ITS and Signal Design

Estimated Construction Cost: \$22,700,000.00

Firm: Kimley-Horn & Associates, Inc., Raleigh, NC

Maximum Engineering Fee: \$4,500,000.00 DBE/MBE/SPSF Utilization: Davenport

20% / \$900,000.00

SPSF Utilization: Ramey Kemp & Associates, Inc.

20% / \$900,000.00

SPSF Utilization: Summit Design and Engineering Services, PLLC

10% / \$450,000.00

#### Field Support

#### Right of Way

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 to provide Right of Way services 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. These are for information only.

#### **DIVISION 1**

Project: 34472.2.SU1 (R-2582) Northampton County

US 158 from I-95/NC 46 in Roanoke Rapids to

SR 1312 (St. John Church Road) in

**Northampton County** 

Scope of Work: Right of Way acquisition, negotiations, legal,

appraisal and relocation assistance

Estimated Construction Cost: \$54,000,000.00

Firm: Gulf Coast, LLC, Charlotte, NC

Maximum Engineering Fee: \$859,152.74

SPSF Utilization: 100%

Project: 41162.2.1 (R-5014) Dare County

SR 1217 (Collington Road) from dead end to US

158 (Croatan Highway)

Scope of Work: Right of Way acquisition, negotiations, legal,

appraisal and relocation assistance

Estimated Construction Cost: \$10,100,000.00

Firm: O R Colan Associates LLC, Charlotte, NC

Maximum Engineering Fee: \$792,394.26

DBE/WBE Utilization: 100%

Project: 50198.2.1 (R-5740) Perquimans County

SR 1329 (Woodville Road) from SR 1331 (Red Bank Road) to SR 1300 (New Hope Road)

Scope of Work: Right of Way acquisition, negotiations, legal,

appraisal and relocation assistance

Estimated Construction Cost: \$4,500,000.00

Firm: The Bernard Johnson Group, Inc., Linwood, NC

Maximum Engineering Fee: \$623,850.00

DBE/MBE/SPSF Utilization: 100%

**DIVISION 2** 

Project: 34360.2.4 (R-1015) Craven County

US 70 (Havelock Bypass) from North of Pine Grove to North of the Carteret County Line Right of Way acquisition, negotiations, legal,

Scope of Work: Right of Way acquisition, negotiations appraisal and relocation assistance.

Estimated Construction Cost: \$164,200,000.00

Firm: AECOM Technical Services of North Carolina

Inc., Chicago, IL

Maximum Engineering Fee: \$398,194.00

SPSF Utilization: 0%

#### **Roadside Environmental**

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 projects. 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: 2014 Roadway Enhancement Plans LSC

0%

Firm: AMEC Foster Wheeler Environment &

Infrastructure, Inc., Durham, NC

Original Engineering Fee: \$500,000.00

Supplemental Fee: One (1) year time-extension only

SPSF Utilization:

Description of Work: 2014 Roadway Enhancement Plans LSC

Firm: Design Workshop, Inc., Denver, CO

Original Engineering Fee: \$500,000.00

Supplemental Fee: One (1) year time-extension only

SPSF Utilization:

Description of Work: 2014 Roadway Enhancement Plans LSC Firm: OBS Landscape Architects, Raleigh, NC

0%

Original Engineering Fee: \$500,000.00

Supplemental Fee: One (1) year time-extension only

SPSF Utilization: 0%

Description of Work: 2014 Roadway Enhancement Plans LSC

Firm: Stewart, Philadelphia, PA

Original Engineering Fee: \$500,000.00

Supplemental Fee: One (1) year time-extension only

SPSF Utilization: 100%

Description of Work: 2014 Roadway Enhancement Plans LSC

Firm: Stimmel Associates, PA, Winston-Salem, NC

Original Engineering Fee: \$500,000.00

Supplemental Fee: One (1) year time-extension only

SPSF Utilization: 100%

#### **Technical Services**

#### **Project Development and Environmental Analysis**

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: 38965.1.1 (U-2509) Mecklenburg County

Charlotte – US 74 (Independence Blvd.) from

Charlotte Outer Loop to Idlewild Road

Scope of Work: Preparation of EA, FONSI, CIA/ICE, ICI Water

Quality Assessments, Public Involvement, Wetland and Stream Delineation, T&E Studies, Preliminary Roadway Design and

Preliminary Hydraulics Report

Estimated Construction Cost: \$412,100,000.00

Firm: VHB Engineering NC PC, Watertown, MA

Original Engineering Fee: \$1,200,000.00
Previous Supplemental Fee: \$1,600,000.00
Supplemental Fee: \$1,300,000.00

Supplemental Work: Completion of EA and FONSI DBE/WBE/SPSF Utilization: Three Oaks Engineering

10% / \$130,000.00

SPSF Utilization: Sungate Design Group PA

5% / \$65,000.00

#### Roadway

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 projects. 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 11**

Project: 34518.3.6 (R-2915A) Ashe & Watauga

Counties

US 221 from US 421 in Watauga County to SR 1003 (Idlewild Rd) in Ashe County

Scope of Work: Roadway and Hydraulic Design

Estimated Construction Cost: \$28,700,000.00

Firm: Vaughn & Melton Consulting Engineers Inc.,

Asheville, NC

Original Engineering Fee: \$401,184.45
Previous Supplemental Fee: \$55,936.03
Supplemental Fee: \$23,708.47

Supplemental Work: Construction Revision requested by NCDOT

to extend SR2, Revise DR4 and add a U-turn

bulb to US 421

SPSF Utilization: 0%

#### **DIVISION 12**

Project: 34522.3.5 (R-3100A) Catawba County

NC 16 (Comb w/ R-3100B) From North of SR 1814 (Caldwell Road) To SR 1895 (Tower

Road)

Scope of Work: Roadway and Hydraulic Design

Estimated Construction Cost: \$50,800,000.00

Firm: Mott MacDonald I&E LLC, Pittsburgh, PA

Original Engineering Fee: \$380,313.54
Previous Supplemental Fee: \$97,614.28
Supplemental Fee: \$79,438.46

Supplemental Work: Required additional time for miscellaneous

revisions, computations, and Corridor

Modeling; combining projects R-3100A and R-3100B for Let; provide detour and temporary cross overs; and incorporate final pavement

design.

SPSF Utilization: 0%

## NCDOT JULY 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 September 2017 Board meeting.

## **Road Additions:**

County	Pet. No.	Length (Miles)	Description	Date of Report
<b>Division 1</b> Currituck	51416	0.31	Aydlett's Subdivision Lloyd's Lane	7/13/17
<b>Division 3</b> Onslow	51417	0.14	Conley Hills Subdivision Conley Hills Drive	7/21/17
Onslow	51418	0.27 0.32 0.28 0.39 0.12 0.06 0.22	Carolina Plantations Subdivision Sonoma Road Merin Height Road Arabella Drive Solomon Drive Stafford Lane Appling Court Roswell Lane	7/21/17
Onslow	51419	0.11 0.15 0.07	Cotton Hill Subdivision Deacons Ridge Road N. Windy Ridge Road S. Windy Ridge Road	7/25/17
Onslow	51420	0.20 0.20 0.08	Killis Hills Subdivision Deer Haven Drive, SR 2078 Ext. Starky Drive Dole Court	7/21/17
Onslow	51421	0.17 0.08	Bradford Estates Subdivision Prospect Drive, SR 2575 Ext. Purvis Court	7/21/17
Pender	51422	0.25 0.06	Tradewinds Cove Subdivision Tradewinds Drive Sailview Court	7/26/17
Pender	51423	0.15	Snug Harbor Subdivision Bermuda Drive	7/18/17
<b>Division 4</b> Johnston	51424	0.17 0.27 0.07	Taft Woods East Subdivision Rockport Drive, SR 3258 Ext. Running Springs Court Feather Falls Court	5/15/17

## NCDOT September 2017 Board of Transportation Agenda

## **Road Additions:**

County	Pet. No.	Length (Miles)	Description	Date of Report
<b>Division 4</b> Johnston	51425	0.70 0.03	Riverwood Subdivision Riverwood Drive, SR 2601 Ext. Crissie Court	5/25/17
Johnston	51426	0.10	Corinth Place Subdivision Rose Petal Court	5/30/17
Johnston	51427	0.17 0.09 0.11 0.19 0.12	Brook Run Subdivision Harvey Farm Drive Pompano Lane Seahorse Court Tarpon Drive Grouper Court	5/23/17
Wayne	51428	0.64 0.16	Park East Industrial Park Gateway Drive Challen Court	7/26/17
Wayne	51429	0.70 0.43	<b>Willow Brook Subdivision</b> Willowbrook Drive Brookside Way	4/18/17
Division 5				
Wake	51430	0.05	Salem Woods Subdivision Care Free Cove	7/18/17
Wake	51431	0.30 0.03	Kelsey at Falls Lake Subdivision Coveshore Drive Wallberman Drive	7/27/17
Wake	51432	1.12	<b>Greenfield North Subdivision</b> Greenfield Parkway	7/31/17
Wake	51433	0.06 0.04	Eaglestone Subdivision Eagleshire Place Falconton Lane	6/19/17
<b>Division 6</b> Cumberland	51434	0.26 0.14 0.05	The Village on Asphens Creek Subdivision Screech Owl Drive, SR 4521 Ext. Goshawk Drive, SR 4524 Ext. Coot Court	7/27/17

## NCDOT September 2017 Board of Transportation Agenda

## **Road Additions:**

County	Pet. No.	Length (Miles)	Description	Date of Report
<b>Division 7</b> Alamance	51435	0.16	George Morrow Estates Subdivision Lost Acres Drive	6/7/17
Guilford	51436	0.25 0.28 0.06	Woodvale Subdivision Horse Farm Road Deep Valley Road Rush Springs Court	9/8/17
Guilford	51437	0.07	Warner Point Subdivision Fontana Court	7/12/17
Guilford	51438	0.18 0.18	Sumner Hills Subdivision Divot Drive Fairway Drive	9/6/16
Guilford	51439	0.24	Fox Den Acres Subdivision Clarence Road South	5/1/17
<b>Division 9</b> Forsyth	51440	0.08	Rierson Farms Subdivision Smoky Ridge Lane	7/10/17
Forsyth	51441	0.04 0.03	<b>Breyerton Subdivision</b> Chipchase Road, SR 4479 Ext. Moultrie Court	7/10/17
<b>Division 11</b> Alleghany	51263	0.12	The Joe Place Subdivision Joe Place West	8/24/16
Deletions: County	Pet. No.	Length (Miles)	Description	Date of Report
<b>Division 10</b> Mecklenburg	51442	0.18	SR 1515 Hill Street	5/25/17
Mecklenburg	51443	1.24	SR 3624 Rea Road	5/25/17
Mecklenburg	51444	0.64	SR 2746 Claude Freeman Drive	5/25/17
Mecklenburg	51445	0.60	SR 2725 Governor Hunt Road	5/25/17

September 7, 2017

**Deletions:** 

County	Pet. No.	Length (Miles)	Description	Date of Report
<b>Division 10</b> Mecklenburg	51446	1.27	SR 2699 Research Drive	5/25/17

Summary: Number of Roads Petitioned for Addition – 56
Number of Roads Petitioned for Abandonment – 5

#### **Corrections:**

Division 2 – Beaufort County, June 2017 BOT Agenda Petition 51355 should not have been listed.

Division 2 – Beaufort County Petition 51331 Extended SR 1456, Page Road for 0.47 miles. The correct mileage should be 0.43 miles.

Division 2 – Pitt County Petition 51391 added Wheaton village Drive. It should be listed as Wheaton Village Drive.

Division 3 – New Hanover County Petition 51338 added Strawberry Fields Way. It should be listed in Pender County.

Division 4 – Johnston County Petition 51313 added Banbury Court for 0.04 miles. The correct mileage should be 0.05 miles. Ashcroft Court for 0.05 miles. The correct mileage should be 0.06 miles. Wellington Court for 0.09 miles. The correct mileage should be 0.09 miles.

Division 4 – Johnston County Petition 51071 added High Ridge Court for 0.10 miles. The correct mileage should be 0.06 miles.

#### NCDOT SEPTEMBER 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.

Description	Туре	Amount
Town of Belville – Connect stub road off of NC- 133 adjacent to Scotchman BP station to SR 1551 (Main St)	Small Construction	\$21,000.00
WBS 47602	TOTAL	\$21,000.00
Installation of speed alert flasher with drive feedback sign on SR 1653 (Old Point Rd) WBS 47638	Contingency	\$44,700.00
	TOTAL	\$44,700.00
Construct access road, approximately 3,050 ft, from off of NC-111 at Edgecombe Community College	Contingency	\$550,000.00
WBS 80036	TOTAL	\$550,000.00
Town of Littleton – WBS 80020 was established (12/15) to remove and replace sidewalk along US-158 from an existing crosswalk on US-158 to Ferguson St	Contingency	\$7,208.83
Increase and close		
Town of Clayton – WBS 80019 was established (11/15) to construct left turn lane on NC-42 west along with a bulb out on NC-42 east to	Contingency	\$13,947.65
facilitate safer more efficient truck movements Increase and close	TOTAL	\$13,947.65
Town of St Pauls – WBS 46913 was established (12/16) for surveying in advance of road improvements including turns lanes and a	Public Access	\$1,986.29
associated with upcoming industry expansion Increase & close	TOTAL	\$1,986.29
City of Ashebora WRS 47606 was		
established (07/17) for preliminary design work/environmental documents for shelf ready	Contingency	\$500,000.00
project at Megasite Increase funds	TOTAL	\$500,000.00
	Town of Belville – Connect stub road off of NC-133 adjacent to Scotchman BP station to SR 1551 (Main St) WBS 47602  Installation of speed alert flasher with drive feedback sign on SR 1653 (Old Point Rd) WBS 47638  Construct access road, approximately 3,050 ft, from off of NC-111 at Edgecombe Community College WBS 80036  Town of Littleton – WBS 80020 was established (12/15) to remove and replace sidewalk along US-158 from an existing crosswalk on US-158 to Ferguson St Increase and close  Town of Clayton – WBS 80019 was established (11/15) to construct left turn lane on NC-42 west along with a bulb out on NC-42 east to facilitate safer more efficient truck movements Increase and close  Town of St Pauls – WBS 46913 was established (12/16) for surveying in advance of road improvements including turns lanes and a truck acceleration lane on NC-20 near St Pauls associated with upcoming industry expansion Increase & close  City of Asheboro – WBS 47606 was established (07/17) for preliminary design work/environmental documents for shelf ready project at Megasite	Town of Belville – Connect stub road off of NC- 133 adjacent to Scotchman BP station to SR 1551 (Main St) WBS 47602  Installation of speed alert flasher with drive feedback sign on SR 1653 (Old Point Rd) WBS 47638  Contingency WBS 47638  Contingency TOTAL  Construct access road, approximately 3,050 ft, from off of NC-111 at Edgecombe Community College WBS 80036  Tomal  Town of Littleton – WBS 80020 was established (12/15) to remove and replace sidewalk along US-158 from an existing crosswalk on US-158 to Ferguson St Increase and close  Town of Clayton – WBS 80019 was established (11/15) to construct left turn lane on NC-42 west along with a bulb out on NC-42 east to facilitate safer more efficient truck movements Increase and close  Town of St Pauls – WBS 46913 was established (12/16) for surveying in advance of road improvements including turns lanes and a truck acceleration lane on NC-20 near St Pauls associated with upcoming industry expansion Increase & close  City of Asheboro – WBS 47606 was established (07/17) for preliminary design work/environmental documents for shelf ready project at Megasite

## NCDOT SEPTEMBER 2017 BOARD OF TRANSPORTATION AGENDA

#### **Funds Request**

# Division-wide Small Construction, Statewide Contingency, Public Access, Economic Development

County	Description	Туре	Amount
Div 11	Ungrade signal to matal strain pales and most		
Watauga	Upgrade signal to metal strain poles and mast arms and install advanced warning flashers at the intersection of US-421 and Old US-421	Contingency	\$149,000.00
	near Deep Gap WBS 47621	TOTAL	\$149,000.00
Div 12 Cleveland	City of Polkville – Safety improvements to SR 1883 (Park Dr); widen existing road (0.10 mi)	Contingency	\$175,000.00
	WBS 47637	TOTAL	\$175,000.00
Div 12 Cleveland / Gaston	Amtrak Study for the connection of Kings Mountain and Gastonia to Charlotte	Contingency	\$75,000.00
Gaston	WBS 47636	TOTAL	\$75,000.00
Div 12 Lincoln	Signal improvements at Hwy 16 N Business and Webbs Rd	Contingency	\$40,000.00
	WBS 47635	TOTAL	\$40,000.00
Divida	0	0	
Div 14 Macon	Construction emergency signs and flashers on NC-28 at Mason Branch Rd (SR 1388) for Cowee Volunteer Fire & Rescue	Small Construction	\$25,003.85
	WBS 47620	TOTAL	\$25,003.85

**Summary:** 

Number of Divisions 7 Number of Projects 12

Small Construction Commitment\$46,003.85Public Access Commitment\$1,986.29Contingency Commitment\$1,554,856.48Economic Development\$0.00

TOTAL \$1,602,846.62

September 7, 2017 Page 2 of 2

Town/County Division	Project Description	Estimated	l Cost
7	18-DG-025 - The City of High Point in conjunction with the High Point Market Authority is requesting funds to support transportation for the annual Fall and Spring furniture markets in High Point. The funds will be used to provide free shuttle services for market attendees from Piedmont Triad area hotels and designated park and ride lots to the Home Furnishings Market, and for circulator services in the High Point showroom district. The circulator and shuttle services will be provided by numerous private transportation providers procured and organized by the High Point Market Authority. This is a request to disburse up to \$600,000 for each market subject to appropriations by the Legislature.	\$1,200,000 \$0 \$1,200,000 \$0	Total Federal State Local
9	18-DG-037 – Rowan County will provide direct purchase of service to continue the Rowan Express Commuter Route for connectivity from Salisbury to China Grove, Landis and Kannapolis. The route connects with the Salisbury Transit System, CK Rider System, Cabarrus County Transit system and AMTRAK in Salisbury and Kannapolis, making it a true regional connector to major destinations for employment, employment training, medical appointments, Rowan/Cabarrus Community College, DSS and Health Department, VA Hospital, Government Offices, bill paying, shopping and visiting family members.	\$130,000 \$0 \$65,000 \$65,000	Total Federal State Local

Item I - 1, 2 Project(s), Total Federal/State Funds \$1,265,000

STIP Approval

#### ADDITIONS 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)
	City of Asheville (ART)	Mountain Projects (Haywood County) New Deviated Fixed Route-Capital. Add JARC funding			(000)		(000)	(000)	(000)	(000)	(000)
TG-6187		for FY 2018	FUZ	5307		58					
TO-6144	City of Asheville (ART)	Mountain Projects (Haywood County) New Deviated Fixed Route-Operations. Add JARC funding for FY 2018	Local	5307		58					
			Local	L		58					
TA-6681	Chapel Hill Transit	Bus Replacement Project- CMAQ	FUZ	5307		1094					
			Local	L		274					
TA-6682	GO Durham Transit	Bus Replacement	FUZ	5307		400					
			Local	L		100					
TA-6683	Chatham County Transit	Transit Service Improvements along the US 15-501 Corridor between Pittsboro and Chapel Hill 30-35 ft HD Low Floor Transit Bus	FUZ	5307		400					
			Local	L		100					
TA-6684	Greensboro Transit Authority	Electric Replacement Buses (FY18-19)	FUZ	5307		3854					
			Local	L		964					

#### **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)
	City of Asheville	Asheville Redefines Transit-									
TD-5282	(ART)	Transit Station Renovation.	FBUS	5339		214					
			Local	L		750					

#### **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)
	Transportation										
TA-6676	Lincoln County	Purchase Expansion Vehicle	Fed	FNU		56					
			Local	L		7					
			Local	Т		7					

Item I-1A, 8 Projects, Total Federal/State funds \$6,134,000

Town/County Division	NCDOT September 2017 Board of Transportation Agenda Rail Program  Project Description	Estimated Cost
Statewide 47622	The Rail Division requests State rail funds for state fiscal year 2018 Crossing Inventory & Data Analysis project continuation. These funds support Federal Railroad Administration reporting requirements and safety improvement planning. The total estimated cost to the Department is \$500,000.	\$500,000
Division 5 Wake County 47624	The Rail Division requests State rail overhaul funds for a new rail car overhaul project. The Division received new state funds in the biennial budget to overhaul rail cars. The Department owns nineteen in-service passenger coaches and lounge/baggage cars. The Division will procure a firm to overhaul multiple rail cars to extend their useful life and improve customer satisfaction with the <i>Piedmont</i> service.	\$2,321,500
Division 5 Wake County 47623	The Rail Division requests State rail overhaul funds for a new locomotive overhaul project. The Division received new state funds in the biennial budget to overhaul locomotives. The Department owns eight in-service locomotives. The Division will procure a firm to overhaul multiple locomotives to extend their useful life and improve customer satisfaction with the <i>Piedmont</i> service.	\$2,321,500
Division 7 Alamance County 80000.2.1.	The Rail Division requests partial reallocation of Freight Rail & Rail Crossing Safety Improvement (FRRCSI) funds from Project Graphite (due to a change in industry commitment) to safety improvements between Williamson Avenue and Church Street on the North Carolina Railroad/Norfolk Southern line in Elon. The Department will be responsible for the construction of the project. The total estimated cost to the Department is \$50,000. FRRCSI ID: F17203	\$50,000
Division 8 Randolph County 80000.3.1.	The Rail Division requests Board approval of Freight Rail & Rail Crossing Safety Improvement (FRRCSI) funds for the construction of a new rail industrial access track to serve Project Pine. The company proposes to create a minimum of 77 jobs during the first two years and invest a total of \$10 million for the project. They anticipate shipping 730 carloads of rail freight per year and require additional rail access in order to develop the Randolph County site. Funding is contingent on a completed Rail Industrial Access application with approved reimbursement percentage. The total estimated cost to the Department is \$210,000. The total estimated cost is \$900,000. FRRCSI ID: F18301	\$210,000

Division 12 Gaston County 80000.2.2.5 The Rail Division requests partial reallocation of Freight Rail & Rail Crossing Safety Improvement (FRRCSI) funds from Project Graphite (due to a change in industry commitment) to upgrade crossing signal monitoring equipment at 11 at-grade crossings on the Piedmont & Northern Railway. The Railroad will be responsible for the construction of the project. The total estimated cost to the Department is \$50,000. FRRCSI ID: F14223

\$50,000

ITEM I-2 SUMMARY - 6 PROJECTS - \$5,453,000 (TOTAL FEDERAL AND STATE)

## NCDOT September 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 September 7, 2017 Board of Transportation meeting.

**ITEM I-3 SUMMARY - NO PROJECTS** 

#### **NCDOT September 2017 Board of Transportation Agenda**

#### **Aviation Program**

## Town/County Division

#### **Project Description**

Division 6 Curtis L Brown Field Elizabethtown

#### **NEW TERMINAL BUILDING SITE WORK**

Site work project includes earthwork, utilities, and fencing associated with the construction of the new 4,589 square foot terminal building facility. [3791]

#### **CONSTRUCT - TERMINAL IMPROVEMENTS PART I**

Division 6 Fayetteville Regional Airport Demolition of Concourse A and connector. Installation of temporary TSA Screening Checkpoint and construction of new connector, restaurant, and Concourse A with two (2) new jet bridges. [3297]

This project is primarily funded via a \$20M grant from FAA and the airport will be using the earmarked state commercial service funds at \$1,130,670 per year from FY18 and the FY19 budget years for the local match. This is a cash flow project with \$1,130,670 in funds each year in SFY 18 and SFY 19 respectively.

Division 1 Tri-County Airport Ahoskie

#### **WATERLINE EXTENSION**

Extend the Hertford County waterline toward the Terminal Building to replace failing well system. [3751]

#### ITEM I-4 SUMMARY – 1 PROJECTS – (TOTAL STATE COST) \$2,480,000

\*\*Project selection and approval for award. Estimated costs are shown; only eligible costs within the project scope of work will be reimbursed.

Town/ County Division PROJ. CATEGORY	Project Description	Estimated Cost
Lenoir/ Pitt Cos. Div. 2 R-5815 DIVISION	WBS 46987.1.1 NC 11 from proposed Greenville Southwest Bypass to proposed Harvey Parkway Extension. Initial funds are requested for preliminary engineering.	\$750,000.00
Jones Co. Div. 2 R-2514D STATEWIDE	WBS 34442.2.SU5 US 17 from South of NC 58 to the New Bern Bypass. \$6,585,000.00 has previously been approved for utilities. Additional funds are needed to cover expenditures that have or will exceed the previously authorized budget. This is a Strategic Transportation Investments Transition project.	\$1,300,000.00
Wilmington/ New Hanover Co. Div. 3 U-4751 STATEWIDE	WBS 40191.3.2 SR 1409 (Military Cutoff Road Extension) from SR 1409 (Military Cutoff Road) to US 17 in Wilmington. Initial funds are requested for construction based on the estimate from the 12-month Tentative Letting List published August 9, 2017. This is a Cash Flow project with \$22,700,000.00 in SFY 18, SFY 19, SFY 20 and SFY 21.	\$90,800,000.00
Wilmington/ New Hanover Co. Div. 3 U-4751 STATEWIDE	WBS 40191.1.2 SR 1409 (Military Cutoff Road Extension) from SR 1409 (Military Cutoff Road) to US 17 in Wilmington. \$8,875,302.00 has previously been approved for preliminary engineering. Additional funds are requested to finalize design plans. This project has previously been identified as a Trust Fund Intrastate System project.	\$1,000,000.00
New Hanover Co. Div. 3 U-5731 STATEWIDE	WBS 54022.1.2 US 74 at US 17 / US 421 in Wilmington. Initial funds are requested for preliminary engineering. Project is being shifted from Federal funding on WBS 54022.1.1 to State funding.	\$1,500,000.00

Town/ County Division PROJ. CATEGORY	Project Description	Estimated Cost
Pender Co. Div. 3 U-5732A REGIONAL	WBS 54023.1.2 US 17 from SR 1570 (Factory Road) to Dan Owen Drive. Initial funds are requested for preliminary engineering.	\$25,000.00
Halifax/ Northampton Cos. Divs. 1/4 P-5602U STATEWIDE	WBS 46393.1.22 Evaluate scope and estimated costs to construct new second main track from Roanoke River (MP A81.5) to CP Weldon (MP A84.7). Initial funds are requested for preliminary engineering.	\$300,000.00
Smithfield/ Johnston Co. Div. 4 U-3334B DIVISION	WBS 34929.2.6 SR 1923 Extension (Booker Dairy Road) from SR 1003 (Buffalo Road) to US 301 (Brightleaf Boulevard). \$500,000.00 has previously been approved for right of way. Additional funds are requested to cover relocation costs.	\$400,000.00
Durham Co. Div. 5 P-5602T STATEWIDE	WBS 46393.1.21 Evaluate scope and estimated cost to construct double tracks from Alexander Drive (MP H61.1) to CP Nelson (MP H63.6). Initial funds are requested for preliminary engineering.	\$100,000.00
Wake Co. Div. 5 P-5602Q STATEWIDE	WBS 46393.1.18 Extend Edwards Mill Road to Wolf Wood Drive and provide grade separation at railroad crossing. Initial funds are requested for preliminary engineering.	\$150,000.00

Town/ County Division PROJ. CATEGORY	Project Description	Estimated Cost
Wake Co. Div. 5 P-5602R STATEWIDE	WBS 46393.1.19 Close Beryl Road railroad crossing and add new connector from Beryl Road to Royal Street and improve Royal Street railroad. Initial funds are requested for preliminary engineering.	\$50,000.00
Wake Co. Div. 5 R-2635D STATEWIDE	WBS 35520.3.S5 NC 540 (Triangle Expressway) Interchange with SR 1153 (Holly Springs/Apex Road). \$20,461,012.00 has previously been approved for construction. Additional funds are needed to cover expenditures that have or will exceed the previously authorized budget. This is a Strategic Transportation Investments Transition project.	\$1,700,000.00
Raleigh/ Wake Co. Div. 5 U-2823 STATEWIDE	WBS 38984.1.2 US 70 from I-540 to Hillburn Drive in Raleigh. Initial funds are requested for preliminary engineering.	\$2,500,000.00
Raleigh/ Wake Co. Div. 5 U-4432 DIVISION	WBS 35029.3.D1 SR 1370 (Tryon Road) from west of Bridge No. 259 over the Norfolk Southern Railway to US 70-401/NC 50 (Wilmington Street). \$9,221,250.00 has previously been approved for construction. Additional funds are requested.	\$10,000.00
Wake Co. Div. 5 U-6026 DIVISION	WBS 47150.1.1 Town of Knightdale. Construct townwide ITS / Signal system. Initial funds are requested for preliminary engineering.	\$150,000.00

Town/ County Division PROJ. CATEGORY	Project Description	Estimated Cost
Cumberland Co. Div. 6 R-2303A STATEWIDE	WBS 34416.3.3  NC 24 from west of SR 1006 (Maxwell Road / Clinton Road) in Cumberland County to SR 1853 (John Nunnery Road), 6.807 miles. \$65,399,325.00 has previously been approved for construction. Additional funds are requested for remaining costs for the project. This is a Strategic Transportation Investments Transition project. This project has previously been identified as a Trust Fund Intrastate System project.	\$3,300,000.00
Cumberland Co. Div. 6 U-2519AB REGIONAL	WBS 34817.2.22 Fayetteville Outer Loop from south of SR 1118 (Parkton Road) to south of SR 1003 (Camden Road). \$842,125.00 has previously been approved for appraisal and acquisition of specific parcels. Additional funds are requested for advanced acquisition of Specific Parcel 900 (Property of Johnathan Clubb Et Ux) for \$134,268.00. This project has previously been identified as a Trust Fund Urban Loop project.	\$134,268.00
Robeson Co. Div. 6 B-5693 DIVISION	WBS 45647.2.1 Replace Bridge 59 over Big Marsh Swamp on SR 1924 (Currie Road). Initial funds are requested for full right of way and utilities.	\$92,000.00
Alamance Co. Div. 7 U-5538C DIVISION	WBS 44113.3.4 NC 119 at SR 1981 (Trollingwood - Hawfields Road) / SR 2126 (Old Hillsborough Road) intersection. Initial funds are requested for construction. This is a Strategic Transportation Investments Transition project.	\$575,000.00
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. Initial funds are requested for preliminary engineering.	\$100,000.00

Town/ County Division PROJ. CATEGORY	Project Description	Estimated Cost
Burlington/ Alamance Co. Div. 7 U-6011 REGIONAL	WBS 47146.1.1 US 70 (South Church Street) at SR 1158 (Huffman Mill Road). Initial funds are requested for preliminary engineering.	\$100,000.00
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. Initial funds are requested for preliminary engineering.	\$100,000.00
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. Initial funds are requested for preliminary engineering.	\$100,000.00
Guilford Co. Div. 7 I-5980 DIVISION	WBS 46964.1.1 I-40 at SR 1860 (Macy Grove Road). Initial funds are requested for preliminary engineering.	\$1,000,000.00
Guilford Co. Div. 7 P-5602S STATEWIDE	WBS 46393.1.20 Evaluate scope and estimated cost to construct double track between CP Fields (MP H0.7) to CP McLeansville (MP H9.8). Initial funds are requested for preliminary engineering.	\$125,000.00

Town/ County Division PROJ. CATEGORY	Project Description	Estimated Cost
Greensboro/ Guilford Co. Div. 7 U-2525B STATEWIDE	WBS 34821.3.S6 Greensboro Eastern Loop from north of US 70 to US 29 north of Greensboro. \$118,908,603.00 has previously been approved for construction. Additional funds are needed to cover work for supplemental agreements. This is a Strategic Transportation Investments Transition project.	\$10,200,000.00
Guilford Co. Div. 7 U-2525B REGIONAL	WBS 34821.2.6 Greensboro Eastern Loop from north of US 70 to US 29 north of Greensboro. Initial funds are requested for Map Act Appraisals and to allow for future acquisition of specific parcels. This is a Strategic Transportation Investments Transition project.	\$25,000.00
Guilford Co. Div. 7 U-5898 REGIONAL	WBS 44661.1.1 US 29 at NC 150. Initial funds are requested for preliminary engineering.	\$100,000.00
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. Initial funds are requested for preliminary engineering.	\$200,000.00
Guilford Co. Div. 7 U-6016 DIVISION	WBS 47161.1.1 SR 2124 (Lewiston Road) at SR 2136 (Fleming Road). Initial funds are requested for preliminary engineering.	\$100,000.00

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). Initial funds are requested for preliminary engineering.	\$100,000.00
Guilford Co. Div. 7 U-6045 DIVISION	WBS 46991.1.1 SR 1850 (Sandy Ridge Road) from I-40 to SR 1008 (West Market Street) in Greensboro. Initial funds are requested for preliminary engineering.	\$1,000,000.00
Orange Co. Div. 7 I-5967 STATEWIDE	WBS 45917.1.1 I-85 at SR 1009 (South Churton Street) in Hillsborough. Initial funds are requested for preliminary engineering.	\$1,000,000.00
Randolph Co. Div. 8 U-5813 REGIONAL	WBS 44385.1.3 US 64 from Asheboro Bypass to east of I-73 / I-74 / US 220 in Asheboro. \$500,000.00 has previously been approved for preliminary engineering. Additional funds are requested for preparation of Right Of Way plans and final plans.	\$2,500,000.00
Winston- Salem/ Forsyth Co. Div. 9 U-2579AB REGIONAL	WBS 34839.2.4 Winston-Salem Northern Beltway Eastern Section (Future I-74) from I-40 to I-40 Business / US 421. \$30,039,576.00 has previously been approved for appraisal and advanced acquisition of specific parcels. Funds are no longer needed for Specific Parcel 904 (rescinded) or Specific Parcel 922 (rescinded). This project has previously been identified as a Trust Fund Urban Loop project.	-\$50,000.00

Town/ County Division PROJ. CATEGORY	Project Description	Estimated Cost
Rowan Co. Div. 9 U-5820B DIVISION	WBS 44392.3.2 New route from SR 1006 (Faith Road) to US 52 (East Innes Street). Initial funds are requested for construction.	\$1,100,000.00
Mecklenburg Co. Div. 10 U-5767 REGIONAL	WBS 50180.1.1 US 21 (Statesville Road) from Northcross Center Court to SR 2147 (Westmoreland Road). \$720,000.00 has previously been approved for preliminary engineering. Additional funds are requested for design work.	\$1,580,000.00
Mecklenburg Co. Div. 10 U-5771 REGIONAL	WBS 50183.1.1 US 21 from SR 2136 (Gilead Road) to Holly Point Drive. \$500,000.00 has previously been approved for preliminary engineering. Additional funds are requested for design work.	\$1,500,000.00
Union Co. Div. 10 U-4024 REGIONAL	WBS 35017.1.2 US 601 from existing US 74 to the Monroe Bypass. Initial funds are requested for preliminary engineering.	\$1,200,000.00
Cleveland Co. Div. 12 R-5849 DIVISION	WBS 47406.1.1 Construct improvements to SR 1313 (Washburn Switch Road) and a new 3-lane road off SR 1313 (Washburn Switch Road) for access to new industrial sites. Initial funds are requested for preliminary engineering.	\$100,000.00

Town/ County Division PROJ. CATEGORY	Project Description	Estimated Cost
Rutherfordton/ Rutherford Co. Div. 13 R-2233BB STATEWIDE/ DIVISION	WBS 34400.1.S5 US 221 South of US 74 Business to North of SR 1366 (Roper Loop Road). \$1,658,635.00 has previously been approved for preliminary engineering. Additional funds are requested to complete the final plans.	\$400,000.00
Clay Co. Div. 14 R-5863 DIVISION	WBS 47516.1.1 US 64 from Main Street to US 64. Initial funds are requested for preliminary engineering.	\$200,000.00
Macon Co. Div. 14 R-5734A DIVISION	WBS 50192.1.1 US 23/ US 441 from US 64 to SR 1652 (Wide Horizon Drive) / SR 1152 (Belden Circle). \$770,811.00 has previously been approved for preliminary engineering. Additional funds are requested for preliminary engineering.	\$750,000.00
Polk Co. Div. 14 I-4729 REGIONAL/ DIVISION	WBS 34243.1.3 I-26, US 74, & NC 108 interchange. \$930,000.00 has previously been approved for preliminary engineering. Additional funds are requested for preliminary engineering.	\$1,210,000.00
Polk Co. Div. 14 I-4729A REGIONAL	WBS 34243.3.2 I-26 / US 74 / NC 108 interchange. Initial funds are requested for construction based on the estimated from the 12-month Tentative Letting List published August 9, 2017.	\$16,000,000.00

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Town/ County Division PROJ. CATEGORY	Project Descriptio	n	Estimated Cost
Statewide P-5602V STATEWIDE	WBS 46393.1.23 Study of future improvements on the corridor to improve speed, capacity requested for preliminary engineering	and safety. Initial funds are	\$200,000.00
Statewide M-0479 STATEWIDE/ REGIONAL/ DIVISION	WBS 46314.1.S1 Statewide project development an preliminary engineering for \$2,130,000.00 has previously been engineering. Additional funds are design work. Additional funds a Statewide (\$160,000.00) / 30% Reg Division (\$120,000.00) Tier funding.	miscellaneous projects. n approved for preliminary requested for additional are requested using 40%	\$400,000.00
STATEWIDE S INVESTMENTS	TRATEGIC TRANSPORTATION	16 PROJECTS	\$114,325,000.00
REGIONAL ST	RATEGIC TRANSPORTATION	12 PROJECTS	\$23,214,268.00
DIVISION STRAINVESTMENTS	ATEGIC TRANSPORTATION	16 PROJECTS	\$6,627,000.00
	IVISION STRATEGIC TION INVESTMENTS	1 PROJECT	\$400,000.00
	VISION STRATEGIC TION INVESTMENTS	1 PROJECT	\$1,210,000.00
	EGIONAL/DIVISION STRATEGIC TION INVESTMENTS	1 PROJECT	\$400,000.00
STRATEGIC T	RANSPORTATION INVESTMENTS	47 PROJECTS	\$146,176,268.00

Town/ County Division PROJ. CATEGORY	Project Description	Estimated Cost
Bertie Co. Div. 1 SS-4901BA	WBS 47436.3.1 SR 1100 (Ghent Street/Grabtown Road) between SR 1106 and US 13; SR 1500 (Woodard Road) between US 13 and SR 1529; SR 1106 (St. Francis Road) between US 13 and SR 1100; and SR 1101 (Madre Road) between SR 1100 and NC 308. Initial construction funds are needed for pavement marking and warning sign revisions, and shoulder upgrades. File 01-17-45442C	\$139,833.00
Kitty Hawk/ Dare Co. Div. 1 SS-4901BB	WBS 47437.3.1 US 158 (Croatan Highway) at SR 1206 (Kitty Hawk Road). Initial construction funds are needed for intersection and pedestrian improvements, and traffic signal revisions. File 01-16-43595C	\$67,500.00
Kitty Hawk/ Dare Co. Div. 1 SS-4901BB	WBS 47437.2.1 US 158 (Croatan Highway) at SR 1206 (Kitty Hawk Road). Initial right of way and utilities funds are needed for intersection and pedestrian improvements, and traffic signal revisions. File 01-16-43595R	\$4,500.00
Craven Co. Div. 2 SS-4902CM	WBS 47438.3.1 SR 1232 (Asbury Road) between 1001 and NC 55. Initial construction funds are needed for roadway improvements including realignment, widening, curve and shoulder improvements, and pavement marking and warning sign upgrades. File 02-15-45250C	\$184,106.00
Craven Co. Div. 2 SS-4902CM	WBS 47438.2.1 SR 1232 (Asbury Road) between 1001 and NC 55. Initial right of way and utilities funds are needed for roadway improvements including realignment, widening, curve and shoulder improvements, and pavement marking and warning sign upgrades. File 02-15-45250R	\$63,000.00

Town/ County Division PROJ. CATEGORY	Project Description	Estimated Cost
Kinston/ Lenoir Co. Div. 2 SS-4902CN	WBS 47439.3.1 SR 1838 (Vernon Avenue) at McLewean Street. Initial construction funds are needed for traffic signal and pavement marking revisions. File 02-16-44148C	\$43,493.00
Kinston/ Lenoir Co. Div. 2 SS-4902CN	WBS 47439.2.1 SR 1838 (Vernon Avenue) at McLewean Street. Initial right of way and utilities funds are needed for traffic signal and pavement marking revisions. File 02-16-44148R	\$1,800.00
Brunswick Co. Div. 3 SS-4903DC	WBS 47440.3.1 SR 1137 (Boones Neck Road) at SR 1141 (Kirby Road). Initial construction funds are needed for All Way Stop sign installation. File 03-17-46448C	\$9,000.00
Wilmington/ New Hanover Co. Div. 3 SS-4903DD	WBS 47441.3.1 SR 1209 at US 117 (Shipyard Boulevard). Initial construction funds are needed for traffic signal revisions. File 03-17-46449C	\$17,325.00
Wilmington/ New Hanover Co. Div. 3 SS-4903DE	WBS 47443.3.1 US 74 (Eastwood Road) at SR 1409 (Military Cutoff Road). Initial construction funds are needed for traffic signal revisions. File 03-17-45264C	\$20,250.00

Town/ County Division PROJ. CATEGORY	Project Description	Estimated Cost
Goldsboro/ Wayne Co. Div. 4 SS-4904EH	WBS 47444.3.1 US 70 at crossover east of SR 1326 (Claridge Nursery Road). Initial construction funds are needed for median crossover removal and turn lane improvements. File 04-17-46313C	\$99,000.00
Durham/ Durham Co. Div. 5 SS-4905EZ	WBS 47451.3.1 NC 98 at Adams Street; and NC 98 at Woodcrest Street. Initial construction funds are needed for channelization and traffic signal installation. File 05-17-6453C	\$144,000.00
Durham/ Durham Co. Div. 5 SS-4905EZ	WBS 47451.2.1 NC 98 at Woodcrest Street. Initial right of way and utilities funds are needed for channelization and traffic signal installation. File 05-17-6453R	\$36,000.00
Raleigh/ Wake Co. Div. 5 SS-4905ET	WBS 47445.3.1 SR 2000 (Wake Forest Road) at Navaho Drive. Initial construction funds are needed for traffic signal revisions. File 05-17-6456C	\$36,000.00
Fuquay Varina/ Wake Co. Div. 5 SS-4905EU	WBS 47446.3.1 US 401/NC 42/NC 55 (Main Street) at Hampton Square/ Sunset Plaza. Initial construction funds are needed for traffic signal revisions. File 05-16-3666C	\$9,000.00

Town/ County Division PROJ. CATEGORY	Project Description	Estimated Cost
Raleigh/ Wake Co. Div. 5 SS-4905EV	WBS 47447.3.1 SR 2041 (Spring Forest Road) at SR 2042 (Fox Road). Initial construction funds are needed for traffic signal revisions. File 05-17-6458C	\$36,000.00
Wake Co. Div. 5 SS-4905EW	WBS 47448.3.1 SR 1379 (Penny Road) at SR 1382 (Olde South Road). Initial construction funds are needed for All Way Stop sign installation. File 05-14-0789C	\$22,500.00
Cary/ Wake Co. Div. 5 SS-4905EX	WBS 47449.3.1 SR 1613 (Davis Drive) at SR 1635 (McCrimmon Parkway). Initial construction funds are needed for traffic signal revisions. File 05-17-6455C	\$45,000.00
Wake Co. Div. 5 SS-4905EY	WBS 47450.3.1 SR 1101 (Piney Grove Wilbon Road) at SR 1100 (Wagstaff Road). Initial construction funds are needed for sight distance improvements. File 05-17-6454C	\$91,800.00
Wake Co. Div. 5 SS-4905EY	WBS 47450.2.1 SR 1101 (Piney Grove Wilbon Road) at SR 1100 (Wagstaff Road). Initial right of way and utilities funds are needed for sight distance improvements. File 05-17-6454R	\$38,700.00

Town/ County Division PROJ. CATEGORY	Project Description	Estimated Cost
Cumberland Co. Div. 6 SS-4906DC	WBS 47453.3.1 NC 295 and US 13 from 850 feet west of US 301 (Dunn Road) to 950 feet east of SR 1933 (Pembroke Road). Initial construction funds are needed for signing and speed limit revisions. File 06-17-46317C	\$40,500.00
Guilford Co. Div. 7 SS-4907BZ	WBS 47454.3.1 SR 1113 (Kivett Drive) at SR 1129 (Groometown Road). Initial construction funds are needed for actuated Vehicle Entering When Flashing signs. File 07-17-430C	\$27,000.00
Hamlet/ Richmond Co. Div. 8 SS-4908BO	WBS 47456.3.1 US 74 Business at Gene Burrel Drive; and US 74 Business at Raleigh Street. Initial construction funds are needed for traffic signal revisions. File 08-16-3646C	\$6,300.00
Lexington/ Davidson Co. Div. 9 SS-4909CA	WBS 47457.3.1 NC 8 (Cotton Grove Road) at SR 1266 (Owens Road). Initial construction funds are needed for traffic signal installation. File 09-17-386C	\$67,500.00
Concord/ Cabarrus Co. Div. 10 SS-4910CY	WBS 47461.2.1 SR 1431 (Weddington Road) from approximately Bennington Drive to Lexington Drive. Initial right of way and utilities funds are needed for curve improvements. File 10-17-261R	\$22,500.00

Town/ County Division PROJ. CATEGORY	Project Description	Estimated Cost
Concord/ Cabarrus Co. Div. 10 SS-4910CY	WBS 47461.3.1 SR 1431 (Weddington Road) from approximately Bennington Drive to Lexington Drive. Initial construction funds are needed for curve improvements. File 10-17-261C	\$128,700.00
Charlotte/ Mecklenburg Co. Div. 10 SS-4910CM	WBS 44959.3.1 SR 1009 (Monroe Road) and Covedale Road. \$56,700.00 in construction funds has previously been approved for traffic signal installation. Additional funds are needed due to an increase in construction costs. File 10-16-230-2	\$41,300.00
Mecklenburg Co. Div. 10 SS-4910CP	WBS 44962.3.1 SR 2805 (Harrisburg Road) and SR 2808 (Camp Stewart Road) near Charlotte. \$7,200.00 in construction funds has previously been approved for traffic signal installation. Additional funds are needed due to an increase in construction costs. File 10-16-218-1	\$35,800.00
Charlotte/ Mecklenburg Co. Div. 10 SS-4910CZ	WBS 47462.3.1 SR 2620 (Reagan Drive) and Tom Hunter Road. Initial construction funds are needed for All Way Stop sign installation. File 10-17-263C	\$45,000.00
Stallings/ Union Co. Div. 10 SS-4910BE	WBS 43632.3.1 SR 1524 (Stevens Mill Road) and SR 1501 (Idlewild Road). \$78,000.00 in construction funds has previously been approved for turn lane construction. Additional funds are needed due to an increase in construction costs. File 10-11-201-2	\$19,500.00

Town/ County Division PROJ. CATEGORY	Project Description	Estimated Cost
Indian Trail/ Union Co. Div. 10 SS-4910CV	WBS 47458.2.1 SR 1367 (Unionville-Indian Trail Road) at the eastern intersection of SR 1508 (Poplin Road). Initial right of way and utilities funds are needed for sight distance improvements. File 10-17-254R	\$54,000.00
Indian Trail/ Union Co. Div. 10 SS-4910CV	WBS 47458.3.1 SR 1367 (Unionville-Indian Trail Road) at the eastern intersection of SR 1508 (Poplin Road). Initial construction funds are needed for sight distance improvements. File 10-17-254C	\$13,500.00
Monroe/ Union Co. Div. 10 SS-4910CW	WBS 47459.3.1 SR 2180 (Sunset Drive) at SR 2139 (Griffith Road). Initial construction funds are needed for All Way Stop sign installation. File 10-17-248C	\$13,500.00
Union Co. Div. 10 SS-4910CX	WBS 47460.3.1 SR 1627 (New Salem Road) at SR 1631 (Lawyers Road). Initial construction funds are needed for sight distance improvements. File 10-17-245C	\$135,000.00
Union Co. Div. 10 SS-4910CX	WBS 47460.2.1 SR 1627 (New Salem Road) at SR 1631 (Lawyers Road). Initial right of way and utilities funds are needed for sight distance improvements. File 10-17-245R	\$22,500.00

Town/ County Division PROJ. CATEGORY	Project Description	Estimated Cost
Surry Co. Div. 11 SS-4911AX	WBS 47464.3.1 US 601 at SR 2221 (Rockford Road). Initial construction funds are needed for traffic signal revisions to provide a Dynamic Red Extension system. File 11-17-203C	\$27,000.00
Boone/ Watauga Co. Div. 11 SS-4911AW	WBS 47463.3.1 SR 1163 at Stadium Drive. Initial construction funds are needed for installation of pedestrian signals, ramps, and crosswalks. File 11-17-202C	\$40,500.00
Catawba Co. Div. 12 SS-4912BC	WBS 44152.3.1 SR 1491 (Section House Road) at SR 1492 (Sipe Road). \$60,000.00 in construction funds has previously been approved for intersection realignment and turn lane construction. Additional funds are needed due to an increase in construction costs. File 12-13-207-1	\$115,000.00
Conover/ Catawba Co. Div. 12 SS-4912CC	WBS 47467.2.1 US 70/US 321 Business at SR 1163 (Boundary Street). Initial right of way and utilities funds are needed for traffic signal installation. File 12-17-206R	\$2,700.00
Conover/ Catawba Co. Div. 12 SS-4912CC	WBS 47467.3.1 US 70/US 321 Business at SR 1163 (Boundary Street). Initial construction funds are needed for traffic signal installation. File 12-17-206C	\$45,000.00

Town/ County Division PROJ. CATEGORY	Project Description	Estimated Cost
Gastonia/ Gaston Co. Div. 12 SS-4912CD	WBS 47468.3.1 US 29/US 74/NC 274 Franklin Boulevard at US 321 Southbound Couplet Chester Street. Initial construction funds are needed for traffic signal and pavement marking revisions. File 12-17-209C	\$18,000.00
Gastonia/ Gaston Co. Div. 12 SS-4912CE	WBS 47470.3.1 NC 274 at NC 275/SR 1312. Initial construction funds are needed for traffic signal and pavement marking revisions. File 12-17-202C	\$18,000.00
Gaston Co. Div. 12 SS-4912CF	WBS 47472.2.1 SR 2439 (Beaty Road) near SR 3066 (Beacon Hills). Initial right of way and utilities funds are needed for guardrail revisions and warning sign installation. File 12-17-200R	\$900.00
Gaston Co. Div. 12 SS-4912CF	WBS 47472.3.1 SR 2439 (Beaty Road) near SR 3066 (Beacon Hills). Initial construction funds are needed for guardrail revisions and warning sign installation. File 12-17-200C	\$30,600.00
Gastonia/ Gaston Co. Div. 12 SS-4912CG	WBS 47473.3.1 SR 2200 (Cox Road) at Aberdeen Boulevard. Initial construction funds are needed for traffic signal revisions. File 12-17-204C	\$22,500.00

Town/ County Division PROJ. CATEGORY	Project Description	Estimated Cost
Asheville/ Buncombe Co. Div. 13 SS-4913CN	WBS 47340.2.1 US 74A/SR 3238 (Fairview Road) from Bleachery Boulevard to NC 81. Initial right of way and utilities funds are needed for installation of pedestrian signals, sidewalks, and crosswalks. File 13-17-201R	\$13,500.00
Asheville/ Buncombe Co. Div. 13 SS-4913CN	WBS 47340.3.1 US 74A/SR 3238 (Fairview Road) from Bleachery Boulevard to NC 81. Initial construction funds are needed for installation of pedestrian signals, sidewalks, and crosswalks. File 13-17-201C	\$324,000.00
Asheville/ Buncombe Co. Div. 13 SS-4913CP	WBS 47488.2.1 SR 2032 (New Haw Creek Road) from SR 2236 to the Antioch Christian Church. Initial right of way and utilities funds are needed for guardrail installation. File 13-17-203R	\$5,400.00
Asheville/ Buncombe Co. Div. 13 SS-4913CP	WBS 47488.3.1 SR 2032 (New Haw Creek Road) from SR 2236 to the Antioch Christian Church. Initial construction funds are needed for guardrail installation. File 13-17-203C	\$137,700.00
Mitchell Co. Div. 13 SS-4913CQ	WBS 47474.2.1 NC 197 from SR 1312/1316 to SR 1349 near Bakersville. Initial right of way and utilities funds are needed for warning sign and guardrail installation. File 13-17-204R	\$5,400.00

Town/ County Division PROJ. CATEGORY	Project Description	Estimated Cost
Mitchell Co. Div. 13 SS-4913CQ	WBS 47474.3.1 NC 197 from SR 1312/1316 to SR 1349 near Bakersville. Initial construction funds are needed for warning sign and guardrail installation. File 13-17-204C	\$218,700.00
Henderson Co. Div. 14 SS-4914DE	WBS 47476.2.1 SR 1127 (Crab Creek Road) from Transylvania County to SR 1123 near Hendersonville. Initial right of way and utilities funds are needed for centerline rumblestrips with long-life pavement markings installation. File 14-17-206R	\$900.00
Henderson Co. Div. 14 SS-4914DE	WBS 47476.3.1 SR 1127 (Crab Creek Road) from Transylvania County to SR 1123 near Hendersonville. Initial construction funds are needed for centerline rumblestrips with long-life pavement markings installation. File 14-17-206C	\$58,500.00
Mills River/ Henderson Co. Div. 14 SS-4914DF	WBS 47477.2.1 SR 1328/SR 1322 (Turnpike Road) from SR 1325 to SR 1316. Initial right of way and utilities funds are needed for warning sign and guardrail installation. File 14-17-208R	\$2,700.00
Mills River/ Henderson Co. Div. 14 SS-4914DF	WBS 47477.3.1 SR 1328/SR 1322 (Turnpike Road) from SR 1325 to SR 1316. Initial construction funds are needed for warning sign and guardrail installation. File 14-17-208C	\$100,800.00

Town/ County Division PROJ. CATEGORY	Project Description	Estimated Cost
	WBS 47478.2.1 Various intersections (14) along the US 64 and US 25 Business one-way pairs in downtown Hendersonville. Initial right of way and utilities funds are needed for traffic signal, signing, and pavement marking revisions. File 14-17-205R	\$4,500.00
	WBS 47478.3.1 Various intersections (14) along the US 64 and US 25 Business one-way pairs in downtown Hendersonville. Initial construction funds are needed for traffic signal, signing, and pavement marking revisions. File 14-17-205C	\$45,000.00
	WBS 47480.3.1 US 176 (Spartanburg Highway) from SR 1764 (S. Grove Street)/S. Charleston Lane to SR 1722 (Old Spartanburg Road). Initial construction funds are needed for installation of pedestrian signals, ramps, and crosswalks. File 14-17-207C	\$98,100.00
	WBS 47480.2.1 US 176 (Spartanburg Highway) from SR 1764 (S. Grove Street)/S. Charleston Lane to SR 1722 (Old Spartanburg Road). Initial right of way and utilities funds are needed for installation of pedestrian signals, ramps, and crosswalks. File 14-17-207R	\$5,400.00
Transylvania Co. Div. 14 SS-4914DI	WBS 47481.3.1 US 64 (Rosman Highway) from 0.18 mile northeast of SR 1160 to SR 1208 near Brevard. Initial construction funds are needed for centerline rumblestripes with long-life pavement markings installation. File 14-17-209C	\$36,000.00

#### NCDOT September 2017 Board of Transportation Agenda Approval of Funds for Specific Spot Safety Improvement Projects

L-13

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 Improvement Projects

Town/ County Division PROJ. CATEGORY	Project Description	Estimated Cost
Transylvania Co. Div. 14 SS-4914DI	WBS 47481.2.1 US 64 (Rosman Highway) from 0.18 mile northeast of SR 1160 to SR 1208 near Brevard. Initial right of way and utilities funds are needed for centerline rumblestripes with long-life pavement markings installation. File 14-17-209R	\$900.00

ITEM L SUMMARY 61 PROJECTS \$3,159,107.00

#### **Division 1**

#### **Ferry Boat Development**

Town/ County/PROJ CATEGORY	Project Description	Estimated Cost
Dare Co. F-5700 DIVISION	52016.3.1, FF-0012(064) NC 12 - Construct River Class Ferry. Funds are needed for construction based on the estimate from the 12-Month Tentative Letting List published July 11, 2017.	\$12,000,000.00 Cost \$9,600,000.00 Fed. \$2,400,000.00 State
	Rural	
Martin Co. R-5781B DIVISION	44911.3.3, TAP-0110(007) ADA (Americans with Disabilities Act) Curb Ramps at various locations with a population of >5000. \$30,000.00 has previously been approved for construction. Additional funds are needed for construction to install or upgrade ADA Ramps.	\$77,000.00 Cost \$61,600.00 Fed. \$15,400.00 State
Martin Co. R-5781B DIVISION	44911.3.7, TAP-0110(011) ADA (Americans with Disabilities Act) Curb Ramps at various locations with a population of <5000. \$119,000.00 has previously been approved for construction. Additional funds are needed for construction to install or upgrade ADA Ramps.	\$123,000.00 Cost \$98,400.00 Fed. \$24,600.00 State
Divisionwide R-5781A DIVISION	44911.3.2, TAP-0110(006) ADA (Americans with Disabilities Act) Curb Ramps at various locations with a population of <5000. \$110,000.00 has previously been approved for construction. Additional funds are needed for construction to install or upgrade ADA Ramps.	\$300,000.00 Cost \$240,000.00 Fed. \$60,000.00 State

#### **Division 1 (Continued)**

#### Rural

Town/ County/PROJ CATEGORY	Project Description	Estimated Cost
Divisiowide R-5781C DIVISION	44911.3.4, TAP-0110(008) ADA (Americans with Disabilities Act) Curb Ramps at various locations with a population of <5000. \$83,000.00 has previously been approved for construction. Additional funds are needed for construction to install or upgrade ADA Ramps.	\$200,000.00 Cost \$160,000.00 Fed. \$40,000.00 State
Pasquotank R-5781C DIVISION	44911.3.5, TAP-0110(009) ADA (Americans with Disabilities Act) Curb Ramps at various locations with a population of >5000. \$32,000.00 has previously been approved for construction. Additional funds are needed for construction to install or upgrade ADA Ramps.	\$124,000.00 Cost \$99,200.00 Fed. \$24,800.00 State
Divisionwide R-5781D DIVISION	44911.3.6, TAP-0110(010) ADA (Americans with Disabilities Act) Curb Ramps at various locations with a population of <5000. \$111,000.00 has previously been approved for construction. Additional funds are needed for construction to install or upgrade ADA Ramps.	\$61,000.00 Cost \$48,800.00 Fed. \$12,200.00 State

#### **Division 2**

#### Safety

Town/ County/PROJ CATEGORY	Project Description	Estimated Cost	
Greene Co.	50138.3.175, HSIP-0123(004)	\$66,000.00	Cost
W-5601FR	NC 123 at SR 1400 (Fourway Road / Ormondsville Road).	\$59,400.00	Fed.
REGIONAL	Funds are needed for construction for safety improvements.	\$6,600.00	State

#### **Division 3**

#### **Congestion Mitigation**

Town/ County/PROJ CATEGORY	Project Description	Estimated Cost
Statewide C-5600BB EXEMPT	50061.5.2, CMAQ-0332(009) Operational subsidy at Ports. Funds are needed for an operating reimbursement agreement.	\$1,504,994.00 Cost \$1,203,995.00 Fed. \$300,999.00 State
	Urban	
Leland/ Brunswick Co. U-5534D DIVISION	44096.1.F5, STPDA-0348(007) Old Fayetteville Road at the corner of the Leland Town Hall Campus. \$32,500.00 has previously been approved for preliminary engineering. Additional funds are requested to complete design work.	\$140,000.00 Cost \$91,000.00 Fed. \$49,000.00 Local
Carolina Beach/ New Hanover Co. U-5534O DIVISION	44096.3.16, STPDA-0308(009) Multi-use path on the south side of Cape Fear Boulevard from Third Street to Dow Road in the Town of Carolina Beach. Construction funds are needed for multi-use path.	\$250,000.00 Cost \$200,000.00 Fed. \$50,000.00 Local
Carolina Beach/ New Hanover Co. U-5534L DIVISION	44096.3.13, STPDA-0332(054) Carolina Beach Island Greenway - Greenville Avenue to Alabama Avenue. \$386,788.00 has previously been approved for construction. Additional funds are requested for changes in scope of work.	\$275,369.00 Cost \$220,295.00 Fed. \$55,074.00 Local

#### **Division 3 (Continued)**

#### Safety

Town/ County/PROJ CATEGORY	Project Description	Estimated Cost
Onslow Co. W-5601A DIVISION	50138.2.2, HSIP-1316(020) SR 1316 (Rhodestown Road) from SR 2054 (Cross Creek Drive) to Holly Grove Court. \$145,000.00 has previously been approved for right of way and utilities. Additional funds are needed.	\$270,000.00 Cost \$243,000.00 Fed. \$27,000.00 State

#### **Division 4**

#### **Enhancement**

Town/ County/PROJ CATEGORY	Project Description	Estimated Cost
Tarboro/ Edgecombe Co. ER-5600DC STATEWIDE	46305.3.38, STBG-0064(194) Landscape renovations along the US 64 Corridor in and around Tarboro, Edgecombe County. Construction funds are needed for landscape enhancements.	\$225,000.00 Cost \$180,000.00 Fed. \$45,000.00 State
	Urban	
Rocky Mount/ Nash Co. U-5026 DIVISION	44033.1.1, IMF-95-3(94)137 I-95 at SR 1770 (Sunset Avenue). \$1,100,000.00 has previously been approved for preliminary engineering. Additional funds are requested to complete design work.	\$500,000.00 Cost \$400,000.00 Fed. \$100,000.00 State
Wilson Co. U-5935 REGIONAL/ EXEMPT	44795.3.1, STBG-0301(041) US 301, SR 1670 (Pender Street) to SR 1515 (Lipscomb Road) and along Ward Boulevard and Herring Avenue for 1.351 miles. TIGER Grant and Repurposed Earmark Funds have been applied for this project. Funds are needed for construction based on the estimate from the 12-Month Tentative Letting List published July 11, 2017.	\$21,508,304.00 Cost \$17,206,643.00 Fed. \$1,801,661.00 State \$2,500,000.00 Local
	Bridge	
Nash Co. B-5980 STATEWIDE	47617.1.1, NHP-1522(005) Replace Bridge #203 over I-95 on SR 1522. Funds are needed for preliminary engineering.	\$1,200,000.00 Cost \$960,000.00 Fed. \$240,000.00 State

#### **Division 4 (Continued)**

#### Safety

Town/ County/PROJ CATEGORY	Project Description	Estimated Cost
Johnston Co. W-5704E DIVISION	44850.1.5, HSIP-1700(022) SR 1700 (Covered Bridge Road) between 0.1 mile west of SR 2685 (Helena Lane) and 0.1 mile west of SR 1703 (Murphrey Road). Funds are needed for preliminary engineering.	\$350,000.00 Cost \$280,000.00 Fed. \$70,000.00 State

# NCDOT September 2017 Board of Transportation Agenda Approval of Funds for Specific Federal - Aid Projects

#### **Division 5**

#### Interstate

Town/ County/PROJ CATEGORY	Project Description	Estimated Cost
Wake Co. I-5111 STATEWIDE	42346.1.1, IMNHF-040-4(139)301 I-40 from I-440 / US 64 (Exit 301) to NC 42 (Exit 312). \$3,593,750.00 has previously been approved for preliminary engineering. Additional funds are requested.	\$180,000.00 Cost \$144,000.00 Fed. \$36,000.00 State
Wake Co. I-5700 STATEWIDE	50118.1.FS1, NHPP-040-1(259)286 I-40 and SR 3015 (Airport Boulevard) revise interchange and construct auxiliary lane on I-40 Westbound from SR 3015 (Airport Boulevard) to I-540. \$500,000.00 has previously been approved for preliminary engineering. Additional funds are needed for development of right of way plans and final plans.	\$3,300,000.00 Cost \$2,640,000.00 Fed. \$660,000.00 State
Wake Co. I-5870 STATEWIDE	46307.1.1, NHP-0440(023) I-440 / US 1 west of Ridge Road to east of US 70 (Glenwood Avenue) in Raleigh, construct new interchange at Ridge Road to connect with Crabtree Valley Avenue, realign I-440 / US 1 interchange with US 70 (Glenwood Avenue), and realign and widen Crabtree Valley Avenue between SR 3009 (Edwards Mill Road) and Ridge Road. Funds are needed for preliminary engineering.	\$2,000,000.00 Cost \$1,600,000.00 Fed. \$400,000.00 State
	Congestion Mitigation	
Durham Co. C-5178 EXEMPT	46239.3.1, CMS-0505(053) Durham-Campus Walk Avenue, Morreene Road to LaSalle Street and LaSalle Street, Kangaroo Drive to Erwin Road.	\$336,250.00 Cost \$269,000.00 Fed. \$67,250.00 Local

Funds are needed for construction for a sidewalk.

#### **Division 5 (Continued)**

#### **Congestion Mitigation**

Town/ County/PROJ CATEGORY	Project Description	Estimated Cost
Durham Co. C-5183B EXEMPT	46242.1.2, CMS-0505(057) SR 1945 (S. Alston Avenue) from SR 1171 (Riddle Road) to Capps Street. Funds are needed for preliminary engineering.	\$10,000.00 Cost \$8,000.00 Fed. \$2,000.00 Local
Wake Co. C-5604IA EXEMPT	43714.1.3, 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. Funds are needed for preliminary engineering.	\$10,000.00 Cost \$8,000.00 Fed. \$2,000.00 Local
	Urban	
Durham Co. U-4726HJ DIVISION	36268.1.33, STPDA-0505(071) NC 751 between Garrett Road and NC 54, and on NC 54 between NC 751 and Dresden Drive. Funds are needed for preliminary engineering.	\$10,000.00 Cost \$8,000.00 Fed. \$2,000.00 Local
Durham Co. U-4726HM DIVISION	36268.3.34, STPDA-0505(049) Durham-Sidewalk on Avondale Drive. Funds are needed for construction for a sidewalk.	\$404,884.00 Cost \$323,907.00 Fed. \$80,977.00 Local

#### **Division 5 (Continued)**

#### Urban

Town/ County/PROJ CATEGORY	Project Description	Estimated Cost
Wake Forest/ Wake Co. U-5118BB REGIONAL	42379.1.34, STPDA-0527(019) Roadway, bicycle and pedestrian improvements along NC 98 Business (Durham Road) between Retail Drive and Tyler Run Drive. Funds are needed for preliminary engineering.	\$10,000.00 Cost \$8,000.00 Fed. \$2,000.00 Local
Wake Co. U-5118GB REGIONAL	42379.3.37, STPDA-0401(281) US 401 at NC 55 and NC 42 in Fuquay-Varina. Construction funds are needed for operational improvements for safety and congestion mitigation.	\$758,000.00 Cost \$606,400.00 Fed. \$151,600.00 Local
	Safety	
Durham Co. SR-5001C DIVISION	40924.3.4, SRS-0505(028) Safe routes to schools. Funds are needed for construction for sidewalks.	\$249,900.00 Cost \$249,900.00 Fed.
	Bicycle and Pedestrian	
Durham Co. EB-5514 DIVISION	50030.1.1, STPEB-0751(026) NC 751 / SR 1183 (University Drive) / SR 2220 (Chapel Hill Road) / Non-System (University Drive) from SR 1116 (Garrett Road) to SR 1158 (Cornwallis Road). Funds are needed for preliminary engineering. This is a Strategic Transportation Investments Transition project.	\$10,000.00 Cost \$8,000.00 Fed. \$2,000.00 Local

#### **Division 6**

#### **National Highway**

Town/ County/PROJ CATEGORY	Project Description	Estimated Cost
Columbus Co. R-5020B DIVISION	41499.1.3, NHP-0701(033) US 701 Bypass (Madison Street - Powell Boulevard) from SR 1437 (Virgil Avenue) to US 74 / 76. \$300,000.00 has previously been approved for preliminary engineering. Additional funds are needed to cover disciplines not included in the initial start of study.	\$1,000,000.00 Cost \$800,000.00 Fed. \$200,000.00 State
	Urban	
Cumberland Co. U-2809B(L) DIVISION	34865.3.4, STP-1132(011) SR 1132 (Legion Road) from SR 1363 (Elk Road) to SR 1007 (Owen Drive). Construction funds are needed for landscaping.	\$155,000.00 Cost \$124,000.00 Fed. \$31,000.00 State
Cumberland Co. U-4403B REGIONAL	39047.1.3, NHP-0401(288) US 401 (Ramsey Street) from US 401 Business (Martin Luther King, Jr. Freeway) to US 401 Bypass. Funds are needed for preliminary engineering.	\$2,200,000.00 Cost \$1,760,000.00 Fed. \$440,000.00 State

#### **Division 6 (Continued)**

#### Urban

Town/ County/PROJ CATEGORY	Project Description	Estimated Cost
Cumberland Co. U-4403C REGIONAL	39047.1.4, NHP-0401(289) US 401 (Ramsey Street) from US 401 Bypass to I-295. Funds are needed for preliminary engineering.	\$700,000.00 Cost \$560,000.00 Fed. \$140,000.00 State
	Safety	
Cumberland Co. W-5601CE STATEWIDE	50138.1.84, HSIP-0401(271) US 401 (Raeford Road) from SR 1400 (Cliffdale Road) to SR 1593 (Hoke Loop Road). \$45,000.00 has previously been approved for preliminary engineering. Additional funds are requested for change in scope.	\$90,000.00 Cost \$81,000.00 Fed. \$9,000.00 State
Rail Program		
Robeson Co. Z-5400FZ REGIONAL	43600.3.76, RR-0072(008) Railway-Highway Grade Crossing Safety Project at NC 72; Crossing #629 593L near Pembroke. Funds are needed for construction to upgrade existing warning devices by installing 4 quadrant gates at railroad crossings.	\$402,000.00 Cost \$361,800.00 Fed. \$40,200.00 State

#### **Division 7**

#### **National Highway**

Town/ County/PROJ CATEGORY	Project Description	Estimated Cost
Alamance Co. I-5711 STATEWIDE	50401.1.FS1, NHPP-040-4(161)220 I-40 / I-85 and SR 1107 (Mebane-Oaks Road) intersection in Mebane. \$700,000.00 has previously been approved for preliminary engineering. Additional funds are needed for the preparation of ROW and Final Plans.	\$900,000.00 Cost \$720,000.00 Fed. \$180,000.00 State
Guilford Co. U-5892 REGIONAL	44673.1.1, NHP-0220(083) US 220 (Battleground Avenue), from Westridge Road to Cotswold Avenue in Greensboro. Funds are needed for preliminary engineering.	\$100,000.00 Cost \$80,000.00 Fed. \$20,000.00 State
	Congestion Mitigation	
Guilford Co. EL-5104 EXEMPT	45125.3.1, CMAQ-0710(036) Deep River Greenway Extension connecting University Park with the Piedmont Environmental Center. Funds are needed for construction for the High Point Greenway Trail.	\$1,557,898.00 Cost \$1,246,318.00 Fed. \$311,580.00 Local
	Urban	
Mebane/ Alamance Co. U-3109B REGIONAL	34900.2.3, STP-0119(008) NC 119 relocation from north of US 70 to South of SR 1918 (Mrs. White Road). \$2,720,128.00 has previously been approved for acquisition of specific parcels. Additional funds are needed for full right of way and utilities.	\$4,692,872.00 Cost \$3,754,297.00 Fed. \$938,575.00 State

#### **Division 7 (Continued)**

#### Urban

Town/ County/PROJ CATEGORY	Project Description	Estimated Cost
Guilford Co. U-5896 DIVISION	44674.1.1, NHP-0029(068) US 29 / US 70 / Business 85, SR 1009 (South Main Street) in High Point. Funds are needed for preliminary engineering.	\$500,000.00 Cost \$400,000.00 Fed. \$100,000.00 State
	Safety	
Orange Co. W-5143 DIVISION	45267.3.3, STP-1004(042) SR 1004 (Efland-Cedar Grove Road) from north of the intersection with SR 1332 (Highland Farm Road). Construction funds are needed for safety improvements. <b>This is a Strategic</b> <b>Transportation Investments Transition project.</b>	\$1,454,232.00 Cost \$292,500.00 Fed. \$32,500.00 State \$1,129,232.00 Local
Supportive Services Work Program		
Guilford Co. M-0460GA EXEMPT	50084.1.10, NST-0NST(010) NSTI 2017-National Summer Transportation Institute - A&T University. \$60,000.00 has previously been approved for preliminary engineering. Additional funds are needed for Training.	\$7,442.00 Cost \$7,442.00 Fed.

**Estimated** 

# NCDOT September 2017 Board of Transportation Agenda Approval of Funds for Specific Federal - Aid Projects

#### **Division 8**

#### **Enhancement**

**Project** 

Town/

County/PROJ CATEGORY	Description	Cost
Pinehurst/ Moore Co. ER-5600HF REGIONAL	46305.3.39, STBG-0829(008) 2017 - 2018 annual flowers at Pinehurst Traffic Circle. Construction funds are needed for landscape enhancements.	\$42,000.00 Cost \$33,600.00 Fed. \$8,400.00 State
	Safety	
Moore Co. W-5601FH REGIONAL	50138.2.165, HSIP-0005(803)  NC 5 from SR 1103 (Sand Pit Road) to just past Habitat For Humanity. \$210,000.00 has previously been approved for right of way and utilities. Additional funds are requested for utility relocation.	\$193,000.00 Cost \$173,700.00 Fed. \$19,300.00 State

#### **Division 9**

#### **National Highway**

Town/ County/PROJ CATEGORY	Project Description	Estimated Cost
Forsyth Co. R-2247EC STATEWIDE	34409.2.26, NHP-0421(088) Reconstruct US 52 / FUTURE I-74 Interchange with NC 65 on Winston-Salem Northern Beltway. Funds are needed for full right of way and utilities.	\$10,000,000.00 Cost \$8,000,000.00 Fed. \$2,000,000.00 State
	Urban	
Forsyth Co. U-2579C REGIONAL	34839.3.GV6, NHP-0918(062) Winston-Salem Northern Beltway (Eastern Section) from US 311 to US 158. Funds are needed for construction based on the estimate from the 12-Month Tentative Letting List published July 11, 2017. This is a four (4) year <b>Cash Flow</b> project with \$15,375,000 in FY 18; \$15,375,000 in FY 19; \$15,375,000 in FY 20; and \$15,375,000 in FY 21. <b>This is an 8 week advertisement.</b>	\$61,500,000.00 Cost \$49,200,000.00 Fed. \$12,300,000.00 State
	Safety	
Lexington/ Davidson Co. W-5709D DIVISION	44855.1.4, HSIP-3346(003) SR 3346 (S. Main Street) at SR 3158 (Anna Lewis Drive) / SR 1298 (Grimes Boulevard); SR 3346 (S. Main Street) at relocated SR 3157 (Brian Center Drive); SR 3157 (Brian Center Drive) at SR 1298 (Grimes Boulevard). Funds are needed for preliminary engineering.	\$80,000.00 Cost \$72,000.00 Fed. \$8,000.00 State
Forsyth Co. SS-4909BZ DIVISION	47442.1.1, HSIP-2691(001) SR 2691 (Wallburg Road) at Business Park Drive, south of Winston-Salem. Funds are needed for preliminary engineering.	\$5,000.00 Cost \$4,500.00 Fed. \$500.00 State

#### **Division 10**

#### **Congestion Mitigation**

Town/ County/PROJ CATEGORY	Project Description	Estimated Cost		
Charlotte/ Mecklenburg Co. C-5541 EXEMPT	51011.3.1, CMS-1003(132) Construct a sidewalk on southwest side, Providence Road in Charlotte. Construction funds are needed for sidewalk.	\$500,000.00 Cost \$350,000.00 Fed. \$150,000.00 Local		
	Safety			
Mecklenburg Co. W-5210K DIVISION	45340.3.11, HSIP-3128(001) SR 3128 (Lawyers Road) from SR 1004 (Bain School Road) to SR 1524 (Stevens Mill Road) in Mint Hill. Construction funds are needed for safety improvements.	\$250,000.00 Cost \$225,000.00 Fed. \$25,000.00 State		
Mecklenburg Co. W-5601FK DIVISION	50138.2.168, HSIP-2802(001) SR 2802 (Rocky River Road) through the intersections of SR 2826 (Hood Road) and SR 2827 (Back Creek Church Road). Funds are needed for full right of way and utilities.	\$35,000.00 Cost \$31,500.00 Fed. \$3,500.00 State		
Stanly Co. W-5710E REGIONAL	44856.2.5, HSIP-0024(082) NC 24 / 27 and SR 1142 (Brown Hill Road) in Locust. Funds are needed for full right of way and utilities.	\$100,000.00 Cost \$90,000.00 Fed. \$10,000.00 State		

#### **Division 10 (Continued)**

#### **Rail Program**

Town/ County/PROJ CATEGORY	Project Description	Estimated Cost	
Union Co. Z-5400JN DIVISION	43600.3.81, RR-1728(007) Railway-Highway Grade Crossing Safety Project at SR 1728 (Clonnie Strawn Road); Crossing #631 768M near Marshville. Funds are needed for construction to upgrade the existing traffic control crossing warning devices to 4 quadrant gates.		Fed.

# **Division 12**

#### Interstate

Town/ County/PROJ CATEGORY	Project Description	Estimated Cost		
Iredell Co. I-5717 STATEWIDE	50134.2.1, NHPP-077-1(221)37 I-77 and the NC 150 interchange. Funds are needed for full right of way and utilities.	\$900,000.00 Cost \$720,000.00 Fed. \$180,000.00 State		
Rural				
Iredell Co. R-2307B REGIONAL	37944.2.4, STP-0150(036) NC 150 from SR 1902 (Harvel Road) in Catawba County to I-77 in Iredell County. Funds are needed for full right of way.	\$8,000,000.00 Cost \$6,400,000.00 Fed. \$1,600,000.00 State		
Iredell Co. R-2307B REGIONAL	37944.2.5, STP-0150(036) NC 150 from SR 1902 (Harvel Road) in Catawba County to I-77 in Iredell County. Funds are needed for utilities.	\$5,600,000.00 Cost \$4,480,000.00 Fed. \$1,120,000.00 State		

# **Division 13**

# Interstate

Town/ County/PROJ CATEGORY	Project Description	Estimated Cost
Buncombe Co. I-5885 DIVISION	53084.3.1, NHP-0025(035) I-40 at US 25 (Hendersonville Road). Construction funds are needed for interchange improvements.	\$1,300,000.00 Cost \$1,040,000.00 Fed. \$260,000.00 State
Buncombe Co. I-5886 DIVISION	53085.3.1, NHP-025A(006) I-40 at US 25A (Sweeten Creek Road). Construction funds are needed for interchange improvements.	\$898,000.00 Cost \$718,400.00 Fed. \$179,600.00 State
Buncombe Co. I-5886 DIVISION	53085.2.1, NHP-025A(006) I-40 at US 25A (Sweeten Creek Road). Funds are needed for full right of way and utilities.	\$53,000.00 Cost \$42,400.00 Fed. \$10,600.00 State

# **Division 14**

# Safety

Town/ County/PROJ CATEGORY	Project Description	Estimated Cost				
Haywood Co. W-5714C DIVISION	44862.3.3, HSIP-1116(013) SR 1116 (Edwards Cove Road) from SR 1111 to US 276 near Waynesville. Funds are needed for construction for safety improvements.	\$110,000.00 Cost \$99,000.00 Fed. \$11,000.00 State				
Swain Co. W-5714D DIVISION	44862.3.4, HSIP-1311(018) SR 1311 (Buckner Branch Road) from SR 1312 (Mineral Springs Road) to SR 1320 (Old US 19) near Bryson City. Funds are needed for construction for safety improvements.	\$110,000.00 Cost \$99,000.00 Fed. \$11,000.00 State				
Rural						
Cherokee Co. R-5861 DIVISION	47427.1.1, NHP-0019(058) US 19 / 129 Cherokee County from Georgia State Line to US 64. Funds are needed for preliminary engineering.	\$2,700,000.00 Cost \$2,160,000.00 Fed. \$540,000.00 State				

# Statewide

# **Congestion Mitigation**

Town/ County/PROJ CATEGORY	Project Description	Estimated Cost			
Statewide C-4903 EXEMPT	44003.3.1, CMS-000S(450)  North Carolina Division of Air Quality. \$1,500,000.00 has previously been approved for construction. Additional funds are requested for change in scope of work.	\$400,000.00 Cost \$320,000.00 Fed. \$80,000.00 Local			
Planning and Research					
Statewide NO ID EXEMPT	47520.4.7, ASAP-FY17(003) Accelerating Safety Activities Program (ASAP) 2017. Funds are needed for FY 2017 allocation.	\$15,000.00 Cost \$15,000.00 Fed.			

# ITEM M SUMMARY - 65 PROJECT(S) - (TOTAL FEDERAL AND STATE) \$152,354,664.00

#### **REVISIONS TO THE 2016-2025 STIP**

# **HIGHWAY PROGRAM** STIP ADDITIONS

**DIVISION 10** 

\* U-6084 MECKLENBURG PROJ.CATEGORY REGIONAL

NC 16 (BROOKSHIRE BOULEVARD) AT SR 2004 (MOUNT CONSTRUCTION FY 2018 - \$3,000,000 (T) HOLLY HUNTERSVILLE ROAD). CONSTRUCT

INTERSECTION IMPROVEMENTS.

FY 2019 - \$3,000,000 (T)

\$6,000,000

NEW PROJECT ADDED. ECONOMIC DEVELOPMENT

PROJECT.

#### STIP MODIFICATIONS

**DIVISION 5** 

U-4916 VANCE PROJ.CATEGORY TRANSITION

SR 1165 (BECKFORD DRIVE), HARRISON STREET TO NORTH PARK DRIVE IN HENDERSON. WIDEN TO THREE LANES WITH CURB AND GUTTER, STORM

DRAINAGE, AND SIDEWALKS.

PER DIVISION OFFICE REQUEST, DELAY CONSTRUCTION FROM FY 17 TO FY 18

**DIVISION 12** 

\* EB-5788 IREDELL PROJ.CATEGORY DIVISION

STATESVILLE, SHELTON AVENUE MULTI-USE PATH, GARNER BAGNAL BOULEVARD TO AMITY HILL ROAD. CONSTRUCT GREENWAY.

CONSTRUCTION FUNDING REMOVED AND USED FOR

PRELIMINARY ENGINEERING

CONSTRUCTION FY 2018 -

\$679,000 (HP) FY 2018 - \$170,000 (L)

\$849,000

**ENGINEERING** FY 2018 -\$402,000 (STBGDA)

\$101,000 (L) FY 2018 -

RIGHT-OF-WAY FY 2019 -\$201,000 (STBGDA)

FY 2019 -\$50,000 (L)

\$754,000

# ITEM N SUMMARY

1 PROJECTS ADDITION S \$6,000,000

MODIFICATION S 2 PROJECTS

> 3 PROJECTS \$6,000,000

<sup>\*</sup> INDICATES FEDERAL AMENDMENT

SUMMARY: There are a total of 53 agreements for approval by the Board of Transportation.

#### Statewide

National Railroad Passenger Corporation (Amtrak) 43413 This Rail Agreement includes the operations cost for Fiscal Year 2018 for Amtrak to operate rail passenger service under the name Carolinian (Trains 79 & 80) between Charlotte and Washington, DC. This agreement includes all costs associated with the operation of the Carolinian including locomotive fuel, host railroad payments and the estimated capital cost for Amtrak-owned passenger train equipment. The estimated cost to the Department for the period October 1, 2017 through September 30, 2018 is \$4,639,551, including a contingency amount of \$201,088.

National Railroad Passenger Corporation (Amtrak) 42801.3.F2 This Rail Agreement includes the operations cost for Fiscal Year 2018 for Amtrak to operate rail passenger service under the name Piedmont (Trains 73, 74, 75 & 76) between Charlotte and Raleigh. This agreement includes all costs for Amtrak's operation of the Piedmont. The estimated cost to the Department for the period October 1, 2017 through September 30, 2018 is \$2,733,183, including a contingency amount of \$178,806.

#### Division 2

City of Kinston Lenoir County B-4565 33773.3.FR2 This Project consists of the replacement of Bridges No. 26, 28, 42 and 43 over the Neuse River on US 70 Business in Kinston, including the installation of lighting on bridges. This supplemental agreement is for the installation of lighting by the Municipality and funding participation. The Department shall participate toward the installation of lights in an amount not to exceed \$110,000.

Neuse Regional Water and Sewer Authority (NRWASA) Pitt County R-2250 34411.3.7

This Project consists of US 264 (Greenville Southwest Bypass) from south of SR 1149 (Old NC 11) to US 264. At the request of the NRWASA, the Department shall include provisions in the construction contract for the contractor to add one additional 16" water valve. The NRWASA shall reimburse the Department the entire cost of said utility work. The estimated reimbursement from the Municipality is \$3,927.

#### Division 3

CSX Transportation, Inc. (CSXT) North Carolina State Ports Authority (Authority) New Hanover County This Service Agreement and Addendum sets out the understanding between the State of North Carolina (as represented by the Department and the Authority) and CSXT, regarding train service for freight delivery to and from the intermodal facility in Charlotte and the Port of Wilmington (Port). Terms include, but are not limited to, time of operation, minimum capacity forecasts, allowed prices and charges, payment and invoicing terms, and confidentiality terms. The complete agreement includes comprehensive terms necessary to further the goals and purposes set out in a Term Sheet agreed to and executed by the parties on the 13th day of January, 2016. This agreement also recognizes that the terms of the freight service between the Port and Charlotte, described and noted as "Charlotte Train Service", meet the intent of the initial Queen City Express Service described in that Term Sheet. The "CCX Train Service" (Port to Central Carolina Connector in Rocky Mount) will be negotiated in good faith in a different addendum at a later date. There will be no cost to the Department.

#### Division 4

City of Rocky Mount CSX Transportation, Inc. (CSXT) Nash County P-5711B 44908 This Rail Agreement includes the permanent closure of the municipal at-grade highway-railroad crossing at Industrial Drive; Crossing # 629 688U, Milepost A 115/24. CSXT will perform all work associated with the crossing closure. In accordance with the approved project plans and subsequent construction agreements with CSXT for the Carolina Connector Project. The Department will reimburse CSXT for the cost of the closure.

#### Division 5

City of Oxford Granville County C-5569 50106.1.F1 50106.2.F1 50106.3.1 This Project consists of construction of a pedestrian crosswalk from Industry Drive along Industry Drive across Linden Avenue to the end of the shopping area in Oxford. This supplemental agreement is to increase the amount of funding for the Project. The Department's original participation was \$240,000. The Department agrees to reimburse the Municipality an additional \$61,000 (80%) from CMAQ funds. The Municipality will provide \$15,250 (20%) as their local match and all costs that exceed the total available funding.

Division 5. cont.

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

City of Durham Durham County EB-5720 50416.1.1 50416.3.1

Town of Knightdale Wake County EL-5100CD 41821.1.42 41821.3.42

Town of Morrisville Wake County EB-5814 44666.1.1 44666.2.1 44666.3.1 This Project consists of construction of sidewalk on Industry Drive at the shopping center and ending at Coventry Drive in Oxford. The Municipality is responsible for all phases of the Project. The Department shall reimburse 80% of approved eligible costs from CMAQ funds, not to exceed \$240,000. The Municipality will be responsible for providing the 20% non-federal match (\$60,000) and all costs that exceed the total available funding.

This Project consists of the construction of a bicycle and pedestrian trail on NC Hwy 147 (Durham Freeway) to connect with the existing Rocky Creek Trail in Durham. The Municipality is responsible for all phases of the Project. The Department shall reimburse 80% of approved eligible costs from TAP funds allocation, not to exceed \$1,767,000. The Municipality will be responsible for providing the 20% non-federal match (\$451,000) and all costs that exceed the total available funding. This agenda item supersedes the item that was approved by the BOT on May 4, 2017.

This Project consists of the construction of sidewalk on the east side of Smithfield Road between Carrington Drive and Edenburg's Keep Drive and a pedestrian crossing at Knightdale Boulevard. This supplemental agreement is to increase the amount of funding for the Project. The Department will provide additional STP-DA funding in the amount of \$340,755 (80%). The Municipality shall provide an additional local match of \$205,955 (20%) and all costs that exceed the total available funding.

This Project consists of the construction of an 8-foot wide concrete sidewalk from the north side of the McCrimmon Parkway intersection to the south side of the Factory Shoppes Road intersection in Morrisville. The Department shall reimburse 80% of approved eligible costs from TAP funds allocation, not to exceed \$260,000. The Municipality will be responsible for providing the 20% non-federal match (\$65,000) and all costs that exceed the total available funding.

Division 5. cont.

Capital Area Metropolitan
Planning Organization (CAMPO)
City of Raleigh
Wake County
M-0522
47433.1.1

This Project consists of planning services related to the development of the Southwest Area Study Update. For costs associated with the study, the Department's total reimbursement shall not exceed \$50,000 of total approved eligible costs from State Planning and Research Funds.

Durham-Chapel Hill-Carrboro Metropolitan Planning Organization (DCHCMPO) City of Durham Durham County M-0522 47433.1.25 This Project consists of planning services related to the development of the NC 751 and Garrett Road Subarea Study. For services associated with the study, the Department's total reimbursement shall not exceed \$100,000 of total approved eligible costs from State Planning and Research Funds.

Durham-Chapel Hill-Carrboro Metropolitan Planning Organization (DCHCMPO) City of Durham Durham County M-0522 47433.1.22 This Project consists of planning services related to the development of the NC 54 West Corridor Study. For services associated with the study, the Department's total reimbursement shall not exceed \$150,000 of total approved eligible costs from State Planning and Research Funds.

Durham-Chapel Hill-Carrboro Metropolitan Planning Organization (DCHCMPO) City of Durham Durham County M-0522 47433.1.23 This Project consists of planning services related to the development of the US 15-501 Corridor 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.

Capital Area Metropolitan
Planning Organization (CAMPO)
City of Raleigh
Durham-Chapel Hill-Carrboro
Metropolitan Planning
Organization (DCHCMPO)
City of Durham
Wake County
M-0522
47433.1.27

This Project consists of planning services related to updating the long-range Triangle Regional ITS Deployment Plan. For services associated with the plan, the Department's total reimbursement shall not exceed \$200,000 of total approved eligible costs from State Planning and Research Funds.

Division 5, cont.

U.S. Geological Survey (USGS) Wake County

The Department and the USGS have an existing Joint Funding Agreement to assess the impact of highway runoff through development of a localized Stochastic Empirical Loading and Dilution Model (SELDM) for North Carolina. This Supplemental Agreement is to provide additional financial support for the SELDM project and to extend the project period through June 30, 2018. The USGS will provide an additional \$35,000 for Project funding and the Department will provide an additional \$35,000 as a match.

U.S. Geological Survey (USGS) Wake County

The Department and the USGS have agreed to a Joint Funding Agreement to update the techniques for estimating the magnitude and frequency of floods for rural basins in the southeastern United States, including North Carolina. The USGS will provide \$139,000 for Project funding and the Department will provide \$258,300. The Project completion date is September 30, 2021.

North Carolina Department of Environmental Quality (DEQ) Wake County This Project consists of two studies: (1) Dredging Services Cost-Benefit Analysis, and (2) Acquisition of Dedicated Dredging Capacity, for dredging on the coast. The studies have been ratified under the Appropriations Act of 2017 (SB 257) and authorized under N.C.G.S. 136-176. NCDOT and NCDEQ will share the cost 50/50% for the Dredging Services Cost-Benefit Analysis. The estimated total cost for that study is \$57,191. NCDEQ will pay 100% of the cost for the Acquisition of Dedicated Dredging Capacity study. The estimated total cost for that study is \$167,913.

CSX Transportation, Inc. (CSXT) Wake County U-4437 35868

On November 4, 2011, The Department and CSXT entered into a Master Engineering Agreement (MEA) which detailed the terms and conditions by which CSXT would proceed with necessary engineering and/or design services for various rail improvements within the State. The MEA stipulated that a request for CSXT to perform design review and/or work for each individual rail improvement project would be identified through a separate written agreement to the MEA. This Addendum #11 to the MEA provides the terms for CSXT to review the design plans for the proposed Blue Ridge Road Grade Separation Project. The Department will prepare and submit the plans to CSXT for review and approval. CSXT will review the Department's plans and be responsible for preparing the project's railroad signal plans. The Department will reimburse CSXT 100% of the work performed by CSXT up to \$1,000,000, based on a cost estimate provided by CSXT.

Division 5, cont.

CSX Transportation, Inc. (CSXT) Wake County U-2719 35869

North Carolina Railroad Company (NCRR) Norfolk Southern Railway Company (NSR) Wake County U-2719 35869

North Carolina Railroad Company (NCRR) Norfolk Southern Railway Company (NSR) Wake County U-4437 35868 On November 4, 2011, The Department and CSXT entered into a Master Engineering Agreement (MEA) which detailed the terms and conditions by which CSXT would proceed with necessary engineering and/or design services for various rail improvements within the State. The MEA stipulated that a request for CSXT to perform design review and/or work for each individual rail improvement project would be identified through a separate written agreement to the MEA. This Addendum #12 to the MEA provides the terms for CSXT to review the design plans for the proposed I-440 Widening Project. The Department will prepare and submit the plans to CSXT for review and approval. The Department will reimburse CSXT 100% of the work performed by CSXT up to \$1,000,000, based on a cost estimate provided by CSXT.

This Preliminary Engineering Rail Agreement includes the review of engineering plans for the proposed I-440 Widening Project in Wake County. The Department will prepare and submit the plans to NSR and NCRR for review and approval. The Department will reimburse NSR 100% of the cost of the work performed under this agreement and up to \$1,000,000 based on a cost estimate provided by NSR.

This Preliminary Engineering Rail Agreement includes the review of engineering plans for the proposed Blue Ridge Road Grade Separation Project. The Department will prepare and submit the plans to NSR and NCRR for review and approval. The Department will reimburse NSR 100% of the cost of the work performed under this agreement up to \$1,000,000 based on a cost estimate provided by NSR.

#### Division 6

Fayetteville Public Works Commission Cumberland County B-4738 38511.2.1 This Project consists of the replacement of Bridge 189 over Buckhead Creek on SR 1137 (Crystal Springs Road). At the request of the Agency, the Department shall include provisions in the construction contract for the contractor to adjust and/or relocate municipally-owned water lines. The Agency shall reimburse the Department the entire cost of said utility work. The estimated cost to the Agency is \$54,515.

Atlantic and Western Railroad, LP (ATW) Harnett and Lee Counties R-3830 38887 This Rail Agreement includes the abandonment of a portion of ATW's mainline from Milepost 2.77 to Milepost 3.0, which will include the removal of at-grade railroad crossings at Nash Street (Milepost 2.81), NC 42 (Milepost 2.89) and Rosser Road (Milepost 3.02) in Sanford. ATW will perform the work and the Department will participate in the cost of the project up to \$1,245,000.

#### Division 7

City of Greensboro Guilford County EB-5712 50408.3.1 This Project consists of the construction of sidewalk along Lovett Street from West Florida Street to Freeman Mill Road with curb cuts and marked crosswalks where needed. This supplemental agreement is to increase the amount of TAP funding for the Project. The Department will provide additional funding of \$151,246 (80%). The Municipality will provide an additional local match of \$37,811 (20%) and all costs that exceed the total available funding.

City of Greensboro Guilford County U-5812 54040.1.1 54040.2.1 54040.3.1

This Project consists of intersection improvements and sidewalk at the non-system intersections of Pisgah Church Road and Lawndale Road; Pisgah Church Road and Martinsville Road; and Lawndale Road and Martinsville Road in Greensboro. The Department is responsible for planning and design, right of way, and construction of the Project. The Municipality shall participate in 20% of the cost for all Project phases.

Division 7. cont.

City of Greensboro Guilford County EB-5877 47272.1.1 47272.2.1 47272.3.1

City of Greensboro Guilford County EB-5883 47279.1.1

North Carolina Railroad Company (NCRR) Norfolk Southern Railway Company (NSR) Alamance County U-3109A 34900

Town of Elon Alamance County 80000 This Project consists of the construction of sidewalk and accessible wheel chair ramps on both sides of Farmington Drive from Gate City Boulevard to Wintergarden Lane and along the north side of Farmington Drive from Wintergarden Lane to Holden Road; and along the northern side from Wintergarden Lane to Holden Road in Greensboro. The Department shall reimburse 80% of approved eligible costs from TAP funds allocation, not to exceed \$324,000. The Municipality will be responsible for providing the 20% nonfederal match (\$81,000) and all costs that exceed the total available funding.

This Project consists of the construction of sidewalks and compliant wheel chair ramps along both sides of Wendover Avenue including short sections along intersecting streets from Grecade Street to North Church Street and Summit Avenue to US 29 in Greensboro. The Department shall reimburse 80% of approved eligible costs from TAP funds allocation, not to exceed \$113,400. The Municipality will be responsible for providing the 20% non-federal match (\$28,350) and all costs that exceed the total available funding. This agenda item supersedes the item that was included on the BOT agenda on June 1, 2017.

This Rail Agreement includes the permanent closure of the at-grade highway-railway crossing at Lake Latham Road; Crossing #735 465T, Milepost H29.83. The Department will perform all work not on railroad right of way. NSR, at no cost to the Department, will perform all work within their right of way.

This Rail Agreement includes the installation of a six (6) foot-high chain link fence along the Lebanon Avenue side of the railroad right of way between the Williamson Avenue at-grade highway-railroad crossing and the Church Street at-grade highway-railroad crossing within the corporate limits of the Municipality. The area where the fence is to be installed presents a safety hazard by allowing the public to cross an active rail line, and the Municipality has requested assistance with financing the installation of the fence. The Municipality shall perform the work and maintain the fence. The Department will reimburse the Municipality up to \$15,773 towards the cost of the work. The estimated cost of the project is \$31,356.

#### Division 8

City of Archdale Randolph County 17BP.8.R.76 This Project consists of the replacement of Bridge No. 750416 on SR 1911 (Ashland Street) over Dale Creek in Archdale. At the request of the Municipality, the Department shall include provisions in the construction contract for the contractor to adjust and/or relocate municipally-owned water and sewer lines. The Municipality shall reimburse the Department the entire cost of said utility work. The estimated reimbursement from the Municipality is \$20,429.53.

City of Sanford Lee County EB-5742 51065.1.1 51065.3.1 This Project consists of the construction of a multi-use sidepath from the West Lee Middle School entrance to the Kiwanis Family Park greenway in Sanford. The Department shall reimburse 80% of approved eligible costs from TAP funds allocation, not to exceed \$372,000. The Municipality will be responsible for providing the 20% non-federal match (\$92,000) and all costs that exceed the total available funding.

#### Division 9

City of Salisbury Rowan County EB-5619 56033.1.1 56033.3.1 This Project consists of the construction of a segment of the Salisbury greenway to connect the Meadowbrook Community to Kelsey Scott Park. The Department shall reimburse 80% of eligible expenses incurred by the Municipality up to a maximum amount of \$700,000. The Municipality shall provide the 20% local match (\$175,000) and all costs that exceed the total estimated cost.

#### Division 10

City of Charlotte Mecklenburg County SS-4910CP 44962.1.1 44962.3.1 This Project consists of the design and installation of a traffic signal at the intersection of Harrisburg Road (SR 2805) and Camp Stewart Road (SR 2808) in Charlotte. The Municipality will design and install the traffic signal. The Department shall reimburse the Municipality up to \$90,700 for the design and installation of the traffic signal.

City of Charlotte Mecklenburg County SS-4910CM 44959.1.1 44959.3.1 This Project consists of the design and installation of a traffic signal at the intersection of Monroe Road (SR 1009) and Covedale Drive. The Municipality will design and install the traffic signal. The Department shall reimburse the Municipality up to \$88,500 for the design and installation of the traffic signal.

Division 10, cont.

Mecklenburg County EB-5829 45969.1.1 45969.3.1

Town of Huntersville Mecklenburg County U-5908 46453.2.1 46453.3.1

City of Albemarle Stanly County W-5601IN 50138.3.249

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

Lakewood Trolley, Inc. (Lessee) City of Charlotte Mecklenburg County This Project consists of the construction of Four Mile Creek Greenway Crossing under South Trade Street (SR 3448). The Department is responsible for all phases of the project. The County shall provide a 20% (\$279,000) local match to the federal funds authorized and all costs that exceed the estimated cost of \$1,393,000.

This Project consists of right of way acquisition, utility relocation and construction of upgrades to Main Street from Mt. Holly-Huntersville Road to Ramah Church Road. The Municipality is responsible for all phases of the Project. The Department shall reimburse 50% of approved eligible costs from STP, Demonstration and Bonus Allocation funding not to exceed \$ 5,000,000. The Municipality will be responsible for providing the 50% (\$5,000,000) non-federal match for the federal funds authorized and all costs that exceed the total available funding.

This Project consists of safety improvements along NC 24/27. At the request of the Municipality, additional work will be included in the project for widening Leonard Lane for a dedicated left-turn lane, curb and gutter, construction of monolithic islands and sidewalk. The Municipality shall participate in the construction costs of the project in the amount of \$45,000. The estimated cost of the project is \$170,000.

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 include provisions in the construction contract for the contractor to adjust and/or relocate municipally-owned sewer lines. The Municipality shall reimburse the Department the entire cost of said utility work. The estimated reimbursement from the Municipality is \$14,239.71.

This Memorandum of Understanding is a statement of intent between the Department, the Municipality and the Lessee to set forth the joint responsibilities for the establishment of a vintage trolley service along a portion of the inactive P&N Rail Corridor owned by the Department and the Municipality. The Lessee will operate and maintain the service and will be responsible for all liability and insurance.

#### Division 11

Town of Yadkinville Yadkin County EB-5529 50044.1.1 50044.3.1 This Project consists of construction of new sidewalk along the north side of SR 1134 (North Lee Avenue) from SR 1314 (Main Street) to US 601 in Yadkinville. This supplemental agreement is to increase funding. The Department's original participation was \$545,000. The Department shall reimburse the Municipality an additional \$750,000 in Project funds.

#### Division 12

Cleveland County R-5849 47406.1.1 47406.2.1 47406.3.1 47336 This Project consists of construction of a new three-lane road off of Washburn Switch Road to new industrial sites and to place a 35ft shift in SR 1313 (Washburn Switch Road). This supplemental agreement is to increase funding. The Department's original participation was \$575,000. The Department shall reimburse the County an additional \$1,300,000 in Project funds.

County of Alexander Borealis Compounds, Inc. Alexander County 80000.3.1.12 On August 3, 2017, the Board approved Freight Rail and Rail Crossing Safety Improvement (FRRCSI) funds to assist the County with the construction of approximately 2,000 feet of rail spur tracks off Alexander Railroad's mainline to serve Borealis Compounds in Taylorsville. The County will perform the work. The Department will participate in the cost of the project up to \$175,000. The total estimated cost of the project is \$500,000. This Rail Agreement has been modified to include the Corporation as a party to the agreement. The Corporation will own and maintain the spur track. All other provisions of the agreement will remain the same.

County of Cleveland Clearwater Paper Corporation Cleveland County P-5724 80000.3.1.15 This Rail Agreement includes the approval of State rail funds to assist the Grantee with the construction of 5,293 feet of industrial spur track off of CSXT's SF line in Cleveland County. The spur track will serve Clearwater Paper, a new customer, at Milepost 388.5 near the intersection of Washburn Switch Road (SR 1313) and Farmville Road (SR 1341) north of US 74. The Grantee will be responsible for performing the work. The Department will participate in the cost of the project up to \$200,000. The estimated cost of the project is \$1,135,020.50.

Division 12, cont.

Progressive Rail Incorporated Gaston County 80000.2.3.68

This Rail Agreement includes the procurement and installation of digital wireless remote crossing monitoring units for eleven (11) highway-railway at-grade crossings along the state-owned P&N Rail Line in Gaston County. The Corporation will be responsible for performing the work. The Department will reimburse the Corporation up to \$40,000 for the procurement cost of the monitoring units.

City of Gastonia Gaston County Z-5700LC 44803 This Rail Agreement includes the installation of warning devices and associated roadway safety improvements at the municipal highway-railway grade crossing on May Street, at Norfolk Southern Railway Crossing #716-230G; Milepost MN 401.100 in Gastonia. The Department will coordinate with the railroad for the warning devices and the Municipality will be responsible for the roadway work. The Department will be responsible for 90% of the cost of the work and the Municipality will be responsible for 10% of the cost of the work. The estimated cost of the work is \$460,000.

Division 13

Isothermal Planning and Development Commission Rutherford County M-0522 47433.1.18 This Project consists of the Charlotte Street/Main Street Corridor Study. For costs associated with the study, the Department's total reimbursement shall not exceed \$20,000 of total approved eligible costs from State Planning and Research Funds.

University of North Carolina Asheville Buncombe County B-4823 38593.1.2 This Project consists of the replacement of Bridge #12 on Hogsed Creek on SR 1538. The Department agrees to provide \$15,000 to UNC-A to be used for the Appalachian Elktoe propagation program. This agenda item supersedes the item that was approved by the BOT on February 5, 2017.

Division 13, cont.

FHWA – Eastern Federal Lands Highway Division (EFL) FHWA – NC Division Office (FHWA) Buncombe County I-4700B 36030.1.FS3 This Project consists of the widening of I-26 from NC 146, Long Shoals Road (Exit 37) to I-40 in Buncombe County. This agreement provides for continuing work on the preliminary design and environmental documentation to be performed by the EFL in coordination with FHWA and the Department to obtain the NPS Design Advisory Board approval and to meet NEPA and NPS compliance for the Blue Ridge Parkway bridge replacement over I-26, near Milepost 36, in Buncombe County. This supplemental agreement is to provide an additional \$1,625,000 in funding needed to continue work on the preliminary design. The Department shall provide 80% of the costs in Federal National Highway Performance Program (NHPP) Funds with 20% in State Matching Funds. This agenda item supersedes the item that was included on the BOT agenda on June 29, 2017.

#### Division 14

Town of Fletcher Henderson County U-5872 46415.1.1 46415.2.1 46415.3.1

City of Hendersonville Henderson County U-5840 50231.3.1

Town of Franklin Macon County R-5734A 50192.3.2 This Project consists of improvements to Hendersonville Road (US 25). This supplemental agreement transfers responsibilities for constructing a portion of the Project to the Department. The Department will utilize the available STBGDA funding for this work and the Municipality will provide the non-federal match.

This Project consists of improvements on SR 1545 (Old Airport Road) from US 25 to Mills Gap Road. At the request of the Municipality, the Department shall include provisions in the construction contract for the contractor to adjust and/or relocate municipally-owned water lines. The Municipality shall reimburse the Department the entire cost of said utility work. The estimated reimbursement from the Municipality is \$720,632.38.

This Project consists of improvements on US 23/US 441 from US 64 to SR 1652 (Wide Horizon Drive)/SR 1152 (Belden Circle). 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 construction contract the construction of sidewalk along US 441 from SR 1652 (Wide Horizon Road) to US 64. The Municipality shall reimburse the Department 20% of the actual cost of the work. The estimated reimbursement from the Municipality is \$42,040.

SUMMARY: There are a total of 22 agreements for informational purposes only.

Division 1

Town of Kitty Hawk Dare County 80042 This Project consists of installation of 840 LF of living shoreline of Kitty Hawk Bay adjacent to SR 1216 (Moor Shore Road). The Municipality shall be responsible for all phases of the Project. The Department shall participate in actual costs in an amount not to exceed \$30,000. Costs which exceed this amount shall be borne by the Municipality.

Division 2

City of Greenville Pitt County 44912.3.5 This Project consists of the Construction of various ADA compliant ramps at the intersection in the Municipality. The Department shall be responsible for all phases of the Project. The Municipality shall reimburse the Department \$186,000 (20%) of the cost of the work performed by the Department. The total estimated Project cost is \$930,000.

City of Havelock Craven County 44912.3.9 This Project consists of the Construction of various ADA compliant ramps at the intersection in the Municipality. The Department shall be responsible for all phases of the Project. The Municipality shall reimburse the Department \$10,000 (20%) of the cost of the work performed by the Department. The total estimated Project cost is \$50,000.

Division 3

Town of Carolina Beach New Hanover County U-5534E 44096.1.6 44096.2.6 44096.3.6 This Project consists of the construction of a multi-use path that begins at Mike Chappell Park along the existing cleared fire path and terminates at Greenville Avenue and the Harper Avenue bike lanes, and will consist of a bicycle boulevard on existing pavement on each side of Harper Avenue from Dow Road to Lake Park Boulevard. This supplemental agreement extends the completion date for the Project to June 1, 2019, in lieu of June 30, 2017.

Town of Surf City Pender County B-4929 40233.3.1 This Project consists of the replacement of Bridge 16 over the Intracoastal Waterway on NC 50-210. At the request of the Municipality, the Department shall include in its construction contract, for the contractor to adjust and/or relocate municipally-owned water and sewer lines. This supplemental agreement is for additional work for the removal of AC water line and the installation of 12" piper and valve. The Municipality shall reimburse the Department the entire cost of the additional utility work. The estimated cost to the Municipality is \$27,991.

Division 3. cont.

City of Jacksonville Onslow County 3.106711 This Agreement is to provide "routine" and/or "clean up" sweeping of the State maintained roadways within the corporate limits of the Municipality. The Municipality shall provide the equipment, labor, materials and traffic controls to perform the sweeping. The Department shall reimburse the Municipality up to \$19,499.60 for the yearly mowing cycle. This agenda item supersedes the item that was included on the BOT agenda on May 5, 2017.

Town of Topsail Beach Pender County 36249.3819 This Project consists of the resurfacing of various non-state routes in the Municipality as part of the County's 2018 resurfacing package. 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 \$100,000.

Division 4

Town of Clayton Johnston County 44914.3.6 This Project consists of the construction of ADA acceptable ramps on State Routes SR 1004/SR 1708, SR 1708/First Street and SR 1708/Front Street. The Department is responsible for all phases of the Project. The Municipality shall assume maintenance upon Project completion.

Nash Community College Nash County 80046 This Project consists of construction of a connector access road on the campus of Nash Community College to serve the new cosmetology building. The Agency shall be responsible for all phases of the Project. The Department shall participate in actual costs in an amount not to exceed \$150,000. Costs which exceed this amount shall be borne by the Agency.

Division 5

City of Durham Durham County C-5178 46239.3.1 This Project consists of the construction of sidewalk along Campus Walk Avenue and LaSalle Street in Durham. This supplemental agreement is to extend the completion date of the Project from March 1, 2016 to three years from the date of authorization of federal construction funds.

Division 5, cont.

Research Triangle Institute Durham County 36249.3813 This Project consists of the modification of a traffic signal at SR 1121 (Cornwallis Road) and SR 2017 (West Institute Drive) and a new signal installation at SR 1211 (Cornwallis Road) and SR 1989 (East Institute Drive). The Developer shall reimburse the Department 100% of the cost of the Department's review and inspection of the signals. The estimated reimbursement is \$7,500.

City of Raleigh Wake County

This Agreement provides for the serving of food and beverages on property within or adjacent to State right of way under legislation enacted by the North Carolina General Assembly. This supplemental agreement is to modify provisions to identify the Department as the delegated authority of approving non-highway use of projects on the National Highway System that are not on the interstate, and any projects that are not on the National Highway System.

Division 6

North Carolina Department of Natural and Cultural Resources, Division of Parks and Recreation Cumberland County 36249.3806 This Project consists of the replacement of a 36 inch pipe culvert in Carver Creek State Park. The Department shall be responsible for all phases of the Project. The Agency shall reimburse the Department 100% of the cost of the work performed by the Department. The estimated reimbursement is \$11,000. This agenda item supersedes the item that was included on the BOT agenda on August 3, 2017.

Division 7

Town of Gibsonville Alamance and Guilford Counties 36050.001 This Agreement is to provide snow and ice removal along various state roads in Gibsonville. The Department shall pay the Municipality for the actual cost for labor and equipment not to exceed a maximum amount of \$200,000 per year.

Glen Lennox Apartments, LLC Orange County 36249.3814

This Project consists of traffic signal installations at the new intersection south of Brandon Road along US 15/501 and the new U-turn bulb intersection north of Brandon Road along US 15/501 in Chapel Hill. The Developer shall reimburse the Department 100% of the cost of the Department's review and inspection of the signals. The estimated reimbursement is \$10,000.

#### Division 8

City of Asheboro Randolph County

47424

This Project consists of construction to extend Commerce Street (SR 3102) from existing end of pavement to Pineview Road (SR 1703) in Asheboro. The Department will participate in the actual construction costs up to a maximum of \$400,000 in Contingency funds. Costs which exceed this amount shall be borne by the Municipality.

Greensboro-Randolph Megasite Foundation, Inc. Randolph County 47606 This Project consists of completion of the planning and environmental documentation for the transportation improvements needed for the Greensboro-Randolph Megasite in Randolph County. The Department will participate in the actual costs up to a maximum amount of \$500,000 in Contingency funds. Costs which exceed this amount shall be borne by the County.

Chatham Park Investors, LLC Chatham County 36249.3815

This Project consists of Department Construction Engineering & Inspection (CEI) for widening existing roadways and constructing future transportation facilities in the Chatham Park development. The Developer shall reimburse the Department 100% for the cost of the Construction Engineering and Inspection. The estimated cost is \$300,000.

Division 10

QuikTrip Corporation Mecklenburg County 36249.3817 This Project consists of the modification of an existing signal at the intersection of US 21 (Statesville Road) and SR 5544 (Catawba Avenue). The Developer shall reimburse the Department 100% of the cost of the Department's review and inspection of the traffic signal. The estimated reimbursement is \$5,000.

City of Charlotte Mecklenburg County I-5405C 45454.3.10 45454.3.11 This Project consists of the implementation of increased express bus service and a marketing campaign to mitigate traffic congestion due to I-77 construction. This supplemental agreement reflects modifications to the funding source of the Project.

#### Division 12

Cleveland County

44981

This Project consists of the construction of a turn lane at Pinnacle Classical Academy and the installation of an interim traffic signal at the intersection of NC 180 and SR 2201/SR 2202 (Joe's Lake Road). This supplemental agreement is to increase funding. The Department's original participation was \$350,000. The Department shall reimburse the County an additional \$50,000 in state

Contingency funds.

Division 13

New Belgium Brewing Company Buncombe County 36249.3816 This Project consists of the installation of signs for the New Belgium Brewing Company reading "New Belgium Brewing Company Tours" at I-240, Exit 2, Eastbound and Westbound lanes in Buncombe County. The Department is responsible for all phases of the Project. The Developer shall reimburse the Department 100% for all work performed by the Department. The estimated reimbursement is \$5,403.

# NCDOT September 2017 Board of Transportation Agenda Approval of Municipal Street System Changes

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

No.		Enacted Page No.
1	Preliminary Right of Way Plans	R-1 - R-3
2	Final Right of Way Plans	R-4
3	Revisions of Final Right of Way Plans	R-5
4	Approval of Conveyance of Highway Right of Way Residues	R-6
5	Approval of Conveyance of Surplus Highway Right of Way	R-7
6	Approval of Revision in Control of Access	R-8
7	Approval of Conveyance of Wetland Mitigation Site	R-9
8	Authorization to Condemn Right of Way for Secondary Road Project	R-10
9	Advance Acquisition of Highway Right of Way	R-11

# **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)

Perquimans County; I.D. No. R-5740; Project No. 50198.2.1:

SR 1329 (Woodville Road) from SR 1331 (Red Bank Road) to SR 1300 (New Hope Road)

Dare County; I.D. No. R-5738; Project No. 50196.2.1:

SR 1208 (West Kitty Hawk Road) from SR 1210 (Bob Perry Road) to Ivy Lane

Northampton County; I.D. No. R-2582A; Project No. 34472.2.4:

US 158 from I-95/NC 46 in Roanoke Rapids to SR 1312 (St. John Church Road) in Northampton County

# (Division 2)

Pitt County; I.D. No. U-5875; Project No. 44677.2.1:

SR 1203 (Allen Street) from SR 1467 (Stantonsburg Road) to US 13 (Dickinson Avenue Extension)

Pitt County; I.D. No. U-5919; Project No. 44641.2.1:

SR 1126 (Boyd Street) from NC 11 to Railroad Street

# **Preliminary Right of Way Plans (continued)**

# (Division 3)

Onslow County; I.D. No. W-5601A; Project No. 50138.2.2:

SR 1316 (Rhodestown Road) from SR 2054 (Cross Creek Drive) to Holly Grove Court

# (Division 5)

Wake County; I.D. No. B-5237; Project No. 42838.2.1:

Bridge No. 248 over Mahlers Creek on SR 2703

Granville County; I.D. No. R-5707; Project No. 46379.2.1:

NC 56 at US 15 and NC 50 in Creedmoor

# (Division 6)

Cumberland County; I.D. No. U-5742; Project No. 50164.2.1:

Fayetteville computerized traffic signal system

# (Division 7)

Guilford County; I.D. No. B-5726; Project No. 45682.2.1:

Bridge No. 135 over unnamed branch on SR 1001 (North Church Street)

Guilford County; I.D. No. B-5731; Project No. 45687.2.1:

Bridge No. 112 over the Haw River in Oak Ridge on Stokedale on SR 2109 (Everfield Road)

Alamance County; I.D. No. B-5735; Project No. 45691.2.1:

Bridge No. 307 over Back Creek on SR 1936 (Stone Street Extension)

Guilford County; I.D. No. C-5555E; Project No. 45540.2.6:

SR 1546 (College Road) and SR 2179 (New Garden Road)

Guilford County; I.D. No. B-5353; Project No. 46067.2.1:

Bridge No. 147 over US 311 on US 29/70 and I-85 Business

#### (Division 9)

Rowan County; I.D. No. B-5769; Project No. 45725.2.1:

Bridge No. 200 over Town Creek on SR 2539 (Peach Orchard Road)

Forsyth County; I.D. No. AV-5738; Project No. 46332.2.1:

Smith Reynolds Airport

#### (Division 10)

Cabarrus County; I.D. No. B-5793; Project No. 46067.2.1:

Bridge No. 201 over Little Buffalo Creek on SR 2443 (Cornwell Road)

Stanly County; I.D. No. W-5710E; Project No. 44856.2.5:

NC 24/27 and SR 1142 (Brown Hill Road) in Locust

Stanly County; I.D. No. W-5601N; Project No. 50138.2.249:

NC 24/27/73 from Spaulding Street to SR 1783 (Henson Street)

# **Preliminary Right of Way Plans (continued)**

# (Division 10) (continued)

Stanly County: I.D. No. B-5820: Project No. 45773.2.1:

Bridge No. 211 over Curl Tail Creek on SR 1507 (Gold Branch Road)

Anson County; I.D. No. B-5927; Project No. 46370.2.1:

Bridge No. 44 over Reedy Creek on SR 1811

Mecklenburg County; I.D. No. W-5601FK; Project No. 50138.2.168:

SR 2802 (Rocky River Road) through the intersections of SR 2826 (Hood Road) and SR 2827 (Back Creek Church Road)

Mecklenburg County; I.D. No. I-5714; Project No. 50127.2.1:

I-77 at SR 2136 (Gilead Road) interchange

Union County; I.D. No. B-5801; Project No. 45755.2.1:

Bridge No. 163 over Pole Cat Creek on SR 2166 (Plyler Road)

Union County; I.D. No. U-5703; Project No. 50129.2.1:

US 74 (Roosevelt Boulevard) and SR 1514 (Rocky River Road)

#### (Division 12)

Lincoln County; I.D. No. W-5601Q; Project No. 50138.2.18:

NC 16 Business at SR 1394 (North Pilot Knob Road) and SR 1393 (Hagers Ferry Road) at SR 1394 (North Pilot Knob Road)

#### (Division 13)

Rutherford County; I.D. No. R-2233BB; Project No. 34400.2.5:

US 221 South of US 74 Business (Charlotte Road) to North of SR 1366 (Roper Loop Road)

#### (Division 14)

Macon County; I.D. No. B-4775; Project No. 38546.2.1:

Bridge No. 17 over Wayah Creek on SR 1309

Polk County; I.D. No. I-4729A; Project No. 34243.2.2:

I-26/US 74/NC 108 Interchange

Macon County; I.D. No. R-5734A: Project No. 50192.2.1:

US 23/US 441 from US 64 to SR 1652 (Wide Horizon Drive) / SR 1152 (Belden Circle)

#### **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. 42840.2.1; New Hanover County; I.D. No. B-5236:

Grading, drainage, paving and structure on Bridge No. 19 over Lords Creek on SR 1100 with the right of way indicated upon the final plans for said project.

# (Division 10)

# Project No. 32638.2.2; Anson County; I.D. No. B-2506:

Structure, grading, paving and drainage on Bridge No. 8 over Brown Creek on SR 1627 with the right of way indicated upon the final plans for said project.

#### (Division 12)

#### Project No. 40159.2.1; Iredell County; I.D. No. B-4982:

Grading, drainage, paving and structure on Bridge No. 28 over Third Creek on US 21 -NC 115 with the right of way indicated upon the final plans for said project.

# (Division 14)

# Project No. 34243.2.2; Polk County; I.D. No. I-4729A:

Grading, paving and drainage on I-26/US 74/NC 108 Interchange construct ramps from I-26 Westbound to US 74 Eastbound, and from US 74 Westbound to I-26 Eastbound 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 4)

# Project No. 36596.2.FR1; I.D. No. U-3330; Nash 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) 6 & 10 as presented at the September 7, 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) 9 & 11 as presented at the September 7, 2017 Board of Transportation Meeting.

#### Project No. 34522.2.FR4; I.D. No. R-3100B; 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) 14 as presented at the September 7, 2017 Board of Transportation Meeting.

# 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 8)

Project 34438.2.3, Parcel R-2502A 071, US 1 from South of SR 1001 (Marston Road to North of SR 152 (Vincent Gibson Avenue) Richmond County

Conveyance of an approximate 0.440-acre residue area to Joe B. Seago, the highest bidder after public advertisement, for the high bid amount of \$3,767.00.

# (Division 11)

Project 11.2099RW, Parcel 099SR1548 001, SR 1548 (Quaker Avenue) Yadkin County

Conveyance of an approximate 3.000-acre residue area to Charlie R. Hutchens, the highest bidder after public advertisement, for the high bid amount \$15,751.00.

Project 34518.2.FR3, Parcel R-2915C 034, US 221 from North of South Fork New River to South of NC 194
Ashe County

Conveyance of an approximate 0.866-acre residue area to Fleetwood Volunteer Fire Department, Inc., a displaced property owner by the project, for the appraised value of \$3,250.00.

#### (Division 14)

Project 8.1951102, Parcel R-2214A 004, US 25 from SR 1528 (Brookside Camp Road) North of Hendersonville to SR 1345 (Butler Bridge Road) Henderson County

Conveyance of an approximate 0.920-acre residue area to Trace Land Development, LLC, the highest bidder after advertisement, for the high bid amount of \$60,001.00.

# 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 7)

Project 8.1531908, Parcel 041SR3045 038, Southeast Quadrant of I-40 and Mt. Hope Church Road (SR 3045)

**Guilford County** 

Conveyance of an approximate 0.708-acre surplus right of way area to CCC Development Partners, LLC for the enhancement value of \$92,525.00.

# (Division 9)

Project 8.1620402, SR 3153 (Hanes Mall Boulevard) near I-40 in Winston-Salem **Forsyth County** 

Conveyance of an approximate 1.310-acre surplus right of way area to Mark English for the enhancement value of \$147,225.00.

# (Division 13)

Project 8.1901403, Parcel 102, I-240 Exit 6 off-ramp near US 70 (Tunnel Road) **Buncombe County** 

Conveyance of an approximate 0.503-acre surplus right of way area to John P. Varlas for the enhancement value of \$51,250,00.

#### (Division 14)

Project 8.1950303, Parcel 042, Intersection of NC 107 and SR 1170 (East Rogers Road)

**Jackson County** 

Conveyance of an approximate 0.310-acre surplus right of way area to Clark Lipkin and wife, Becky Lipkin for the enhancement value of \$6,675.00.

# **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, Parcel R-2541 072, NC 55 Bypass near Intersection with East Williams Street in Apex Wake County

Grant of a revision in the existing control of access to Empire Estate, LLC for an approximate 18 meter (60 foot) break along NC 55 Bypass near its intersection with East Williams Street in Apex for the enhancement value of \$60,800.00.

# **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 3)

# Palmetto Peartree Preserve (P3) Mitigation Site Tyrrell County

The Department received a request for the disposal of a mitigation site of approximately 9,732 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.

# **Authorization to Condemn Right of Way for Secondary Road Project**

The Department has been unsuccessful in acquiring certain right of way for Secondary Roads; and the indemnity bond for the cost of any condemnation proceeding required is being secured in keeping with the Secondary Roads Policy of the Department.

Upon recommendation of the Chief Engineer, the Board finds and hereby authorizes the Right of Way Unit to acquire right of way by condemnation through the Attorney General's Office for the following parcel(s):

# (Division 14)

**CLAIM OF: John W. Dye Junior** 

Project #: 44170.14 PARCEL #: 004 COUNTY: Macon

SR#: 1139 Sanders Road

**CLAIM OF: John W. Dye Junior** 

Project #: 44170.14 PARCEL #: 005 COUNTY: Macon

SR#: 1139 Sanders Road

**CLAIM OF: Daren Sanders** 

Project #: 44170.14 PARCEL #: 007 COUNTY: Macon

SR#: 1139 Sanders Road

**CLAIM OF: Lisa Ann Metzker** 

Project #: 44170.14 PARCEL #: 008 COUNTY: Macon

SR#: 1139 Sanders Road

R-11

**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 Hight Properties, LLC I.D. No. U-5720B, Parcel #900, WBS 46308.2.2, F. A. Project N/A, County of Wake

Property of Uva R. Holland I.D. No. R-2721, Parcel #900, WBS 37673.2.1, F. A. Project N/A, County of Wake

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

TOTAL: \$ 441,244.00

**TOTAL** 

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

At the time of preparation of this agenda item the General Assembly had ratified Senate Bill Accordingly, it is recommended that General Maintenance Reserve, Roadside Environmental, Contract Resurfacing, Pavement Preservation, Bridge Program, and Bridge Preservation allocations be made in accordance with the Session Law 2017-57.

The staff also recommends allocating \$6,042,886 of previously undistributed General Maintenance Reserve funds to Asset Maintenance and Operations and Emergencies.

It is recommended that these funds be allocated in accordance with the following:

SCHEDULE I – GENERAL MAINTENANCE RESERVE Road and Bridge Maintenance (Division Distribution) State and Federal Obligation Asset Maintenance and Operation Research and Development Emergency		ALLOCATION 230,929,721 8,530,000 11,103,779 4,121,142 36,155,234
•	Subtotal	*\$290,839,876
SCHEDULE II - ROADSIDE ENVIRONMENTAL Division Distribution Rest Area Renovation and Repair Litter and Mowing Contract Management State Obligation (Inmate Labor)	Subtotal	99,305,000 4,125,000 370,000 200,000 ** <b>\$104,000,000</b>
SCHEDULE III – CONTRACT RESURFACING Division Distribution Pavement Condition Survey Programs	Subtotal	499,057,709 4,375,000 ** <b>\$503,432,709</b>
SCHEDULE IV - PAVEMENT PRESERVATION (Divis	ion Distribution)	**\$100,161,756
SCHEDULE V – BRIDGE PROGRAM Statewide Bridge Replacement Projects Division Distribution	Subtotal	138,158,738 143,000,000 ** <b>\$281,158,738</b>
SCHEDULE VI – BRIDGE PRESERVATION Statewide High Value Bridge Preservation Projects Division Distribution	Subtotal	40,000,000 40,000,000 <b>\$80,000,000</b>
	Grand Total	\$1,359,593,079

<sup>\*</sup>Does not include credit balance to be distributed in October 2017 by Routine Maintenance Improvement Plan (RMIP).

September 7, 2017 Page 1 of 6

<sup>\*\*</sup>Does not include supplemental allocations to be distributed in October 2017.

Credit Balance + Supplemental Allocations ~ \$250M

#### SCHEDULE I – GENERAL MAINTENANCE RESERVE

The General Maintenance allocation formula is comprised of a 35% uniform allocation per Division with the remaining 65% allocated based on Inventory. In accordance with the recommended allocations listed on Page 1, a total of \$290,839,876 has been made available for distribution. These funds will be used for Road and Bridge Maintenance, as well as support Division Administration and Enterprise level programs.

#### **ROAD AND BRIDGE MAINTENANCE**

This item, listed under General Maintenance Reserve, will be utilized for the purposes of continuing routine maintenance activities including, but not limited to, pavement patching, pavement markings, markers, signs, symbols, roadside vegetation management, drainage, unpaved shoulders, litter pickup, and other similar maintenance activities. Bridge related activities include, but are not limited to, repairing concrete bridge decks, girder painting, emergency bridge repair or replacement, replacing electrical components, foundation repair, installation of support bents, and flooring and rail repair. Replacing small critical bridges and pipes, and maintaining navigational lighting systems on high level bridges located over navigational waterways are also eligible activities. These expenditures will include both contract and force account maintenance.

#### **DIVISION ADMINISTRATION**

Division Administration is a direct allocation to the Divisions for the estimated cost of the following:

- Traffic System Operations
- Incident Management
- Electricity for Traffic Control Devices
- Maintenance of Roadway and Interchange Lighting
- Major Events
- Maintenance and Repair of Guardrail
- Operation of Moveable Span Bridges
- Maintenance and Operations of River Ferries

#### **ENTERPRISE PROGRAMS**

Enterprise level programs are comprised of four main categories: State and Federal Obligations, Asset Maintenance and Operations, Research and Development, and Emergencies.

**State and Federal Obligations** are funds required either by state or federal laws, regulations or rules. Examples of such obligations include Asphalt Testing Labs Corrective Actions, Drug & Alcohol Testing, Railroad Signal Maintenance, and maintenance of Weigh Stations.

September 7, 2017 Page 2 of 6

**Asset Maintenance and Operations** are funds used to assess and address statewide program needs. Examples include funding the central activities related to Incident Management, Materials and Test non-TIP pavement activities, NPDES functions, and maintenance repairs to assets such as traffic signals.

**Research and Development** are funds used to research, develop, and implement state of the art maintenance technologies, practices and procedures. Objectives of these programs include improving maintenance efficiencies and improving cost effectiveness.

**Emergencies** are funds used for weather related events, to cover unanticipated expenditures for non-declared emergency operations, as well as snow and ice equipment purchases.

#### SCHEDULE II – ROADSIDE ENVIRONMENTAL

Beginning in FY 2018, the General Assembly established funds to be utilized for vegetation management, mowing, litter prevention and removal, beautification efforts, and rest areas. The allocation formula is comprised of each Division's pro-rata share of shoulder miles. In accordance with the recommended allocations listed on Page 1, a total of \$104,000,000 has been made available for distribution. These funds will be used for Roadside Maintenance and Enterprise level programs.

It is recommended that \$4,125,000 be allocated for Rest Area Renovation and Repair. It is also recommended to allocate an additional \$370,000 for Litter and Mowing Contract Management and \$200,000 to State Obligations for Inmate Labor.

Further detail regarding recommended allocations of these funds is addressed in Table 1 on Page 4.

September 7, 2017 Page 3 of 6

Table 1 - SCHEDULES I and II

	Schedule I	Schedule II		
Division	General Maintenance Reserve	Roadside Environmental		
1	13,047,134	6,993,791		
2	13,560,641	5,731,955		
3	16,420,471	6,820,333		
4	16,229,953	9,378,932		
5	22,380,468	7,640,706		
6	15,443,029	8,024,631		
7	19,480,344	6,504,268		
8	16,177,951	7,261,372		
9	16,967,618	6,317,984		
10	19,451,454	6,847,615		
11	13,958,992	6,548,598		
12	17,760,959	7,518,982		
13	16,009,162	7,037,194		
14	14,041,545	6,678,639		
Subtotal	\$230,929,721	\$99,305,000		
State and Federal Obligation	8,530,000	200,000		
Asset Maintenance & Operations	11,103,779	4,495,000		
Research and Development	4,121,142	-		
Emergencies	36,155,234	-		
Subtotal	\$59,910,155	\$4,695,000		
Grand Total	\$290,839,876	\$104,000,000		

#### SCHEDULE III - CONTRACT RESURFACING

Of the total \$503,432,709 available, it is recommended to continue to cash flow equally in each of the 14 Highway Divisions. The cash flow amount will be increased from \$78,000,000 to \$125,000,000 and is included in the allocation numbers. Resurfacing activities will include placement of plant mixed asphalt, surface treatment seals, and recycling existing pavement. They will also include surface preparation, shoulder reconstruction, and traffic lane markings, performed by State Forces and by Contract. In accordance with current legislation, up to 15% of the funds may be used for widening existing narrow pavements. It is also recommended that, of the total funds available, \$4,375,000 to be allocated to Asset Maintenance and Operation for the purpose of automated Pavement Condition Survey Programs, leaving a balance of \$499,057,709 to be distributed based on each Division's pro-rata share of inventory and need.

September 7, 2017 Page 4 of 6

#### SCHEDULE IV - PAVEMENT PRESERVATION

Beginning in FY 2015, the General Assembly has provided funds to address preservation activities or treatments for asphalt pavement structures. Eligible activities include the following: chip seals, slurry seals, fog seals, sand seals, scrub seals, and cape seals. Microsurfacing, profile milling not covered by resurfacing, asphalt rejuvenators, and open graded asphalt friction course is also eligible. Additional preservation activities include overlays less than 1,000 feet in length, diamond grinding, joint sealing, dowel bar retrofit, and partial or full depth repairs and reclamations. Ultra-thin whitetopping, thin lift and sand asphalt overlays and asphalt crack sealing are also eligible pavement preservation activities. Session Law 2017-57 expanded eligible activities to include pavement markers and markings. \$100,161,756 has been made available, of which \$15,000,000 will be distributed based on each Division's pro-rata share of lane miles and the remaining \$85,161,765 will be distributed to each Division by formula based on 50% Inventory and 50% Need.

#### SCHEDULE V - BRIDGE PROGRAM

Beginning in FY 2015, the General Assembly established Bridge Program funds which are intended to address structurally deficient bridges. Of the total \$281,158,738 available, it is recommended that \$138,158,738 be allocated to fund statewide bridge replacement projects in SFY 2018 bridge projects and to fund preliminary engineering costs for future bridge projects. Of the remaining funds, a uniform allocation of \$5,000,000 per Division is recommended to address the highest priority needs in each division, leaving a balance of \$73,000,000 to be allocated based on the assessed need to achieve statewide goals.

#### SCHEDULE VI - BRIDGE PRESERVATION

Beginning in FY 2018, the General Assembly established funds to employ cost effective solutions to maximize bridge life and lower lifetime cost. Of the \$80,000,000 total available funds, it is recommended that \$40,000,000 be allocated centrally for high value bridge preservation projects. Also, it is recommended that the remaining \$40,000,000 will be allocated to the Divisions based on inventory.

Further detail regarding recommended allocations of these funds is addressed in Table 2 on Page 6.

September 7, 2017 Page 5 of 6

Table 2 – SCHEDULES III, IV, V, and VI

Division	Schedule III Contract Resurfacing	Schedule IV Pavement Preservation	Schedule V Bridge Program	Schedule VI Bridge Preservation
1	37,828,588	6,039,683	6,602,807	2,968,123
2	35,837,937	5,834,338	8,192,187	2,450,080
3	37,716,447	6,776,387	8,836,472	2,623,559
4	37,958,077	8,241,686	8,021,039	2,831,679
5	49,142,204	6,681,007	8,554,543	3,613,495
6	32,409,395	7,615,054	7,241,772	2,135,981
7	33,358,942	6,265,331	13,271,215	2,916,175
8	43,108,865	8,207,644	8,434,253	2,478,812
9	26,602,731	7,577,577	8,684,132	2,461,503
10	33,402,651	5,915,211	8,473,873	3,117,456
11	31,719,373	9,116,878	16,543,946	2,751,956
12	35,416,629	7,631,120	11,483,983	2,629,462
13	31,956,803	6,767,027	16,587,648	3,687,549
14	32,599,067	7,492,813	12,072,130	3,334,170
Statewide	4,375,000	-	138,158,738	40,000,000
Grand Total	\$503,432,709	\$100,161,756	\$281,158,738	\$80,000,000

Item S Summary: 6 Actions totaling \$1,359,593,079

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#### August 17, 2017

MEMORANDUM TO: Board of Transportation

FROM:

Transportation Planning Branch

SUBJECT:

Submission of an Amendment to the Watauga County Comprehensive Transportation Plan for Mutual Adoption by the Board of Transportation

The Transportation Planning Branch has worked cooperatively with Harnett County and the Town of Boone on an amendment to the Watauga County Comprehensive Transportation Plan (CTP). The plan was adopted by Watauga County on June 20, 2017 and the Town of Boone on June 15, 2017. It was endorsed by High Country RPO on August 16, 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 internet at:

https://connect.ncdot.gov/projects/planning/Pages/CTP-Details.aspx?study\_id=Watauga\_County

The Transportation Planning Branch recommends the mutual adoption of the amended Watauga County Comprehensive Transportation Plan as shown on the attached map, with a recommendation date of August 17, 2017.

Sincerely,

Jamal Alavi, P.E.

Manager, Transportation Planning Branch

Attachment

#### Adopted by: **Watauga County** Date: June 20, 2017 Tennessee Town of Boone Date: June 15, 2017 Ashe County **Town of Blowing Rock** Date: March 12, 2013 Town of Seven Devils Date: April 9, 2013 Town of Beech Mountain Date: April 9, 2013 NCDOT Date: Endorsed by: **High Country RPO** Date: August 16, 2017 Recommended by: Blue Ridge Parkway Transportation Planning Branch Date: August 17, 2017 Notes: Avery County 1. NC 105/Bodenheimer Drive Connector location changed to reflect preferred alternative. 2. US 421 improvements to a boulevard between US 321 and NC 194 was unde roonstruction at time of 2013 CTP but is now complete. 3. Bicycle and Pedestrian additions to bring CTP into alignment with Pisgah the Town of Boone Pedestrian and Bicycle Plan adopted National Forest April 24, 2014. Wilkes County Watauga County original CTP adoption: April 16, 2013 Boone original CTP adoption: June 18, 2013 High Country RPO original endorsement: August 21, 2013 NCDOT origianl adoption: September 5, 2013 Caldwell County **Adoption Sheet** Legend Sheet 1 Adoption Sheet Sheet 2 Highway Map **Watauga County** County Boundary Roads Sheet 3 Public Transportation and Rail Map Rivers and Streams Municipal Boundary Comprehensive Sheet 4 Bicycle Map Schools Conservation Land **Transportation Plan** Sheet 5 Pedestrian Map Appalachian Plan Date: August 2, 2012 Base map date: October 4, 2010 Refer to CTP document for more details State University Revision Date: May 25, 2017

### **NORTH CAROLINA BOARD OF TRANSPORTATION**

There will be no	Item V submitted	to the Board for	approval at the S	September 2017	<b>Board</b> meeting



# RESOLUTION FOR HENRY E. FRYE

**WHEREAS,** during the Regular Meeting of April 4, 2017, the Richmond County Board of Commissioners received a request from the Mineral Spring Improvement Council to name the bridge on Green Lake Road that crosses over I-73/74 in honor of Chief Justice Henry E. Frye; and

**WHEREAS,** in 1968, Henry E. Frye became the first African American elected to the North Carolina General Assembly in the twentieth century; and

**WHEREAS,** on February 3, 1983, Henry E. Frye was sworn in as the first African American on the North Carolina Supreme Court; and

**WHEREAS,** in 1999, Henry E. Frye was named Chief of Justice of the North Carolina Supreme Court by Governor Hunt, another first for an African-American; and

**WHEREAS,** Henry E. Frye retired as Chief Justice in 2000 having served on the state's top tribunal for more than 17 years; and

**WHEREAS,** it has been the policy of the Board of Commissioners to submit all local requests for naming of roads and bridges to the North Carolina Department of Transportation for considerations; and

**WHEREAS,** the Department of Transportation is the authorizing state agency charged with the responsibility for assigning road and bridge names in the State of North Carolina; and

**WHEREAS,** the Richmond County Board of Commissioners submits the request made by the Mineral Springs Improvement Council to name the bridge on Green Lake Road over I-73/74 in honor of Chief Justice Henry E. Frye.

#### NOW, THEREFORE, BE IT RESOLVED:

That the North Carolina Board of Transportation names the bridge on Green Lake Road over I-73/74 as the *Henry E. Frye Bridge*.

That appropriate signs will be erected at a suitable time.

Adopted, this the 3rd day of August 2017 by the North Carolina Board of Transportation.

Muchael S. fox

Secretary of Transportation



## RESOLUTION FOR CAPTAIN RICHARD ETHERIDGE

**WHEREAS,** the Dare County Board of Commissions desires to have the North Carolina Department of Transportation name the new Pea Island Interim Bridge in honor of Captain Richard Etheridge, a remarkable man from Dare County; and

**WHEREAS**, the story of Captain Etheridge is a compelling one having been born a slave who grew up to serve in the in the Union Army during the Civil War and who would later become the first African-American to command a Life-Saving Station; and

**WHEREAS,** under the leadership of Captain Etheridge, the Pea Island Life-Saving Station had a crew that consisted of all African-Americans who were credited with bravely saving lives off the shores of the Outer Banks; and

**WHEREAS,** Captain Etheridge was highly respected throughout the United States Life-Saving Service for the rigorous life-saving drills that he developed, which earned the Pea Island Station an exemplary reputation; and

**WHEREAS,** in addition to naming a Coast Guard Cutter in his honor, the United States Coast Guard awarded Captain Etheridge and his crew the Gold Lifesaving Medal for their valiant and brave rescue of those on board the schooner E.S. Newman during a hurricane; and

WHEREAS, the Dare County Board of Commissioners believes that naming the Pea Island Interim Bridge in honor of Captain Etheridge is a fitting tribute to a man who overcame slavery, war, and racism to lead the finest Life-Saving Station in the nation, where he and his African-American crew saved lives at a place that is in close physical proximity to the site of the Pea Island Interim Bridge; and

**WHEREAS**, the Dare County Board of Commissioners hereby formally requests that the North Carolina Department of Transportation name the Pea Island Interim Bridge in honor of Captain Etheridge as a lasting tribute to his dedication and service.

#### NOW, THEREFORE, BE IT RESOLVED:

That the North Carolina Board of Transportation names the new Pea Island Interim Bridge on NC Highway 12 as the *Captain Richard Etheridge Bridge*.

That appropriate signs will be erected at a suitable time.

Adopted this the 7th day of September 2017 by the North Carolina Board of Transportation.

muchael S. fo

Chairman

Secretary of Transportation



#### **Statewide Multimodal Freight Plan**

The North Carolina Statewide Multimodal Freight Plan is the first long range plan developed to explore the State's freight infrastructure and growing freight demands. The Freight Plan recommends strategies that will help NCDOT meet these needs in the near-, mid- and long-term future and ensures that the State will have access to federal freight funding opportunities.

The plan meets the freight-planning requirements laid out in the FAST Act, and must be submitted to FHWA for their review and approval no later than October 2, 2017.

The Board of Transportation is asked to adopt the Statewide Multimodal Freight Plan during its September 7, 2017 meeting.

A draft version of the Freight Plan for the Board of Transportation's consideration is posted and available using the link below.

Statewide Multimodal Freight Plan



#### **State Transportation Improvement Program (STIP)**

The North Carolina Department of Transportation's capital improvement plan is called the State Transportation Improvement Program (STIP). The STIP identifies the construction funding and scheduling for transportation projects at the state level over a 10-year period. Although federal law requires the plan to be updated every four years, the Department proactively updates it every two years.

The Board of Transportation is scheduled to vote on the proposed 2018-2027 STIP during its August 3, 2017 meeting.

In summary, the 2018-2027 STIP contains 1,367 projects, including 344 non-highway projects, in every county across the state. It also includes 220 interstate maintenance and bridge projects, and 53 safety projects.

A draft version of the proposed 2018-2027 STIP that the board is scheduled to vote on August 3, 2017 is posted and available using the link below.

<u>State Transportation Improvement Program (STIP)</u>



### **NORTH CAROLINA**

Department of Transportation



















### Division of Aviation UAS Program

Bobby Walston, Director Basil Yap, UAS Program Manager September 6, 2017

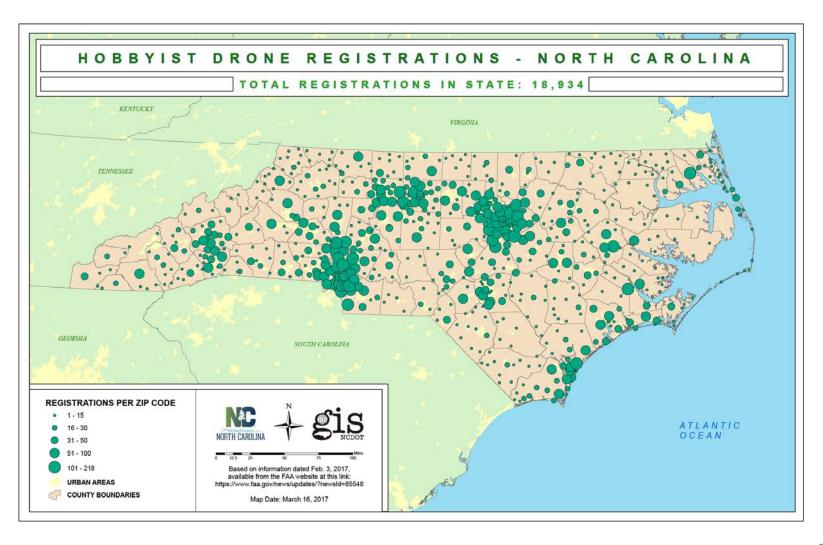
### U.S. Drone Use Exploding

\$82 billion U.S. economic impact,100,000 jobs projected by 2025

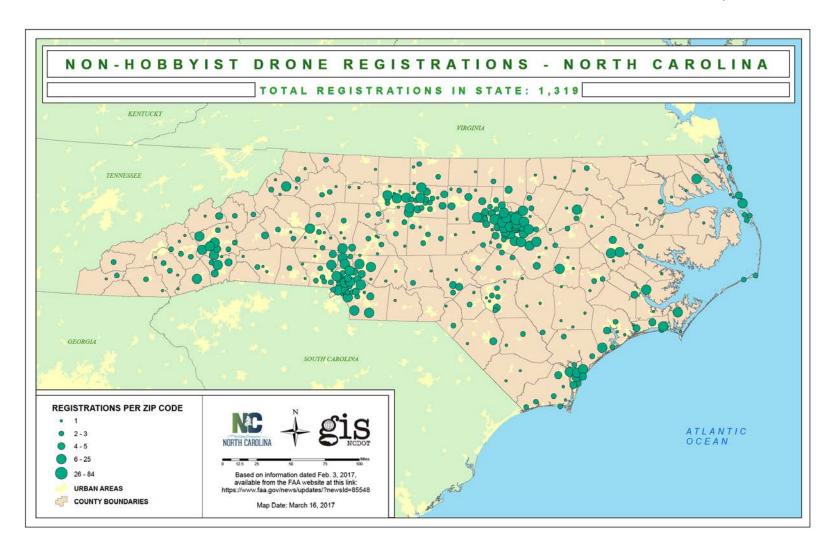
- Broad applications:
  - Public safety
  - Disaster management
  - Aerial imaging/mapping
  - Agricultural monitoring
  - Weather monitoring
  - Telecommunication
  - Media
  - Environmental monitoring
  - Freight transport



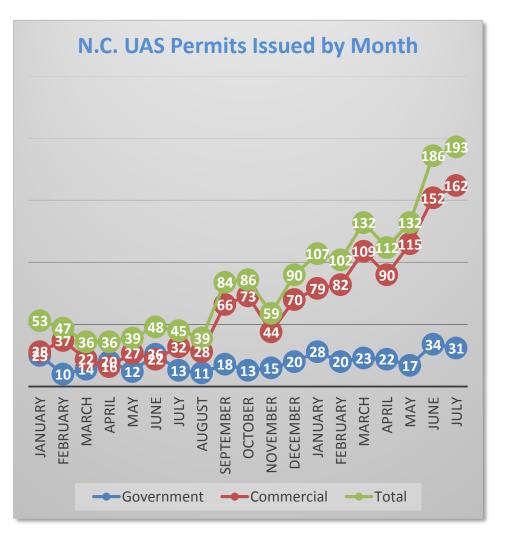
### N.C. Hobbyist Drones: 18,934



### N.C. Government-Commercial Drones: 1,319



### 1,247 N.C. UAS Permits Issued Since 2016



- 2014 law establishes NCDOT Division of Aviation as N.C. UAS Authority
- 1,247 N.C. permits to date
- 193 permits in July 2017
- 20,253 drones now registered with FAA in North Carolina (compares to 7,139 manned aircraft)

### What are the Opportunities?



- Promote N.C. business and economic growth
- Help government agencies enhance public safety, save money and increase efficiencies

### **UAS Program Office Role**



Regulatory

Permitting commercial N.C. UAS operators



Education

Safety, opportunity



Research

Technology benefiting state



Flight Services

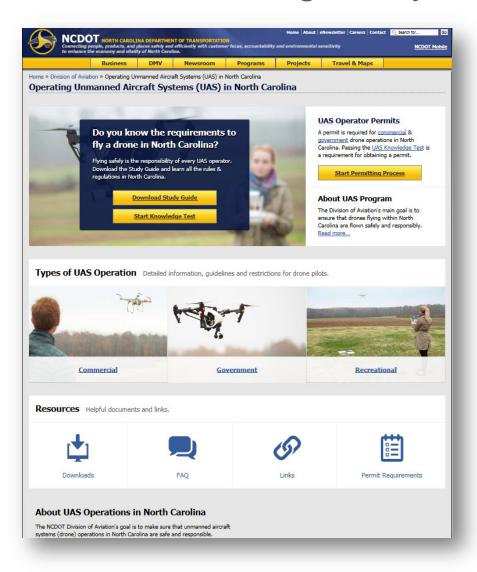
NCDOT, other state agencies, local governments



**Government Agency Integration** 

UAS program development and support

### Regulatory/Education



### ncdot.gov/aviation/uas/

- N.C. UAS Operators Knowledge Test
- Online permitting for commercial/government UAS





### Statewide Drone Workshops

- Charlotte (July 27)
- Asheville (August 31)
- Wilmington (September 27)
- Triad (October)
- Manteo (November)
- Raleigh (January)
- Fayetteville (2018)
- Greenville (2018)



### Research/Integration: Collision Reconstruction



### N.C. State Highway Patrol

May 2017

#### Goals

- Document critical evidence
- Reopen roadway
- Ensure safety at the scene

#### Drone vs Laser

- 25 mins vs 1 hr 51 mins
- Data requirements met

#### **Drone Benefits**

- Cheaper
- Faster
- Less Risk



### **Next Steps**

- Strategic Planning Focus
  - Economic development
  - Government agencies
- Outreach
  - Drone workshops
  - Training for NCDOT employees
  - Working with all education institutions
- Strategic Involvement
  - Early government adopters
  - Private companies
  - BOT Economic Development and Intergovernmental Relations (EDIR) Committee
  - NCDOT Innovation Task Force
- Our Ask: Please let everyone know about us!























# Financial Update As of July 2017

David Tyeryar, Chief Financial Officer

September 6, 2017

# Financial Update SFYTD 2018 as compared SFYTD 2017

	N	Ionth ove	er Moi	nth		Year t	e			
Dollars in Millions	Ju	ly '17	July '16		Ju	ıly '17	J	uly '16	\$ Change	
Collections Expenditures	\$	412 386	\$	409 390	\$	412 386	\$	409 390	\$	3 (4)
Net Change	\$	26	\$	19	\$	26	\$	19	\$	7
					Jı	ıly '17	J	uly '16		
Cash Balances:										
Trust Fund					\$	1,777	\$	1,425		
Highway Fund*						339		260		
Totals					\$	2,116	\$	1,685	<u>.</u>	

<sup>\*</sup>Excludes bond proceeds held by Trustee & GARVEE Debt Service Reserve

### **Revenue Summary July 2017** (\$ in Millions)

						Year Over Year						SFY Budget			
	July	2017	July	2016		.7-2018 ctual		16-2017 Actual		\$	%		Annual Budget	%	
State & Federal Collections:															
Highway Fund *	\$	181.6	\$	178.4	\$	181.6	\$	178.4	\$	3.2	2%		2,191.0	8%	
Highway Trust Fund *		121.8		119.4		121.8		119.4		2.4	2%		1,547.1	8%	
Total State Funds		303.4		297.7		303.4		297.7	'	5.6	2%	\$	3,738.1	8%	
Federal Funds/Participation		74.1		79.3		74.1		79.3		(5.3)	-7%		1,044.9	7%	
GARVEE Reimbusement/NCTA		34.6		31.6		34.6		31.6		3.0	-		N/A	N/A	
Total	\$	412.0	\$	408.7	\$	412.0	\$	408.7	\$	3.4	1%	\$	4,783.0	9%	
								Year Ov	er Yea	ar			SFY Bu	ıdget	
					201	7-2018	201	L6- <b>2017</b>					Annual		
* Memo	July	2017	July	2016	Α	ctual		ctual		\$	%	<u> </u>	Budget	%	
Highway Fund & Trust Fund Details															
Motor Fuel Taxes	\$	167.5	\$	167.1	\$	167.5	\$	167.1	\$	0.5	0%	\$	1,961.8	9%	
Highway Use Tax	•	61.9	•	59.5	l .	61.9	•	59.5	•	2.4	4%		820.8	8%	
DMV/Other Revenue		73.9		71.2		73.9		71.2		2.7	4%		939.8	8%	
Investment Income		-		-		-		-		-			15.6	N/A	

### ncdot.gov

# Expenditure Summary July 2017 (\$ in millions)

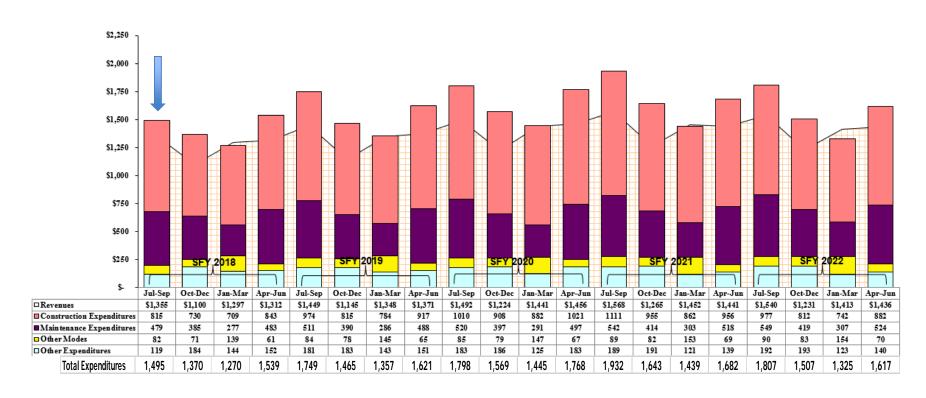
							,	Year Ove	r Yea	ır		SFY Annual	Budget
	Ju	uly-17	Jı	uly-16	1	17-2018 Actual		16-2017 Actual		\$	%	2017-2018 Budget	%
State & Federal Funded Programs:													
Construction	\$	206.2	\$	215.2	\$	206.2	\$	215.2	\$	(9.0)	-4%	\$ 2,319.7	9%
Maintenance		123.4		117.9		123.4		117.9		5.5	5%	1,353.5	9%
Public Transportation		17.9		4.5		17.9		4.5		13.4	295%	131.8	14%
Other Modal/Other Programs		15.0		13.5		15.0		13.5		1.5	11%	246.2	6%
Administration		(46.0)		(43.0)		(46.0)		(43.0)		(3.0)	NA	322.7	-14%
Municipal Aid		(0.1)		-		(0.1)		-		(0.1)	0%	147.5	0%
Transfers to Other Agencies		2.0		-		2.0				2.0	NA	61.0	3%
Total Expenditures	\$	318.5	\$	308.2	\$	318.5	\$	308.2	\$	10.3	3%	\$ 4,582.4	7%
GARVEE/NCTA/Special Iniatives	\$	67.1	\$	81.5	\$	67.1	\$	81.5	\$	(14.4)		200.6	
Total	\$	385.6	Ś	389.7	\$	385.6	\$	389.7	Ś	(4.0)		4,783.0	<u> </u>

### ncdot.gov

### **Revenue and Expenditure Variances** as of July 2017

EXPENDITURES State & Federal Funded		
Programs:	Variance >5%	Reason for Variance
Administration	<14%>	Admin is down due to the IT carryforward. FY17 IT carryforward was \$67.8M.
Public Transportation	14%	Public Transportation processed claims for SFY2017 thru July 31st

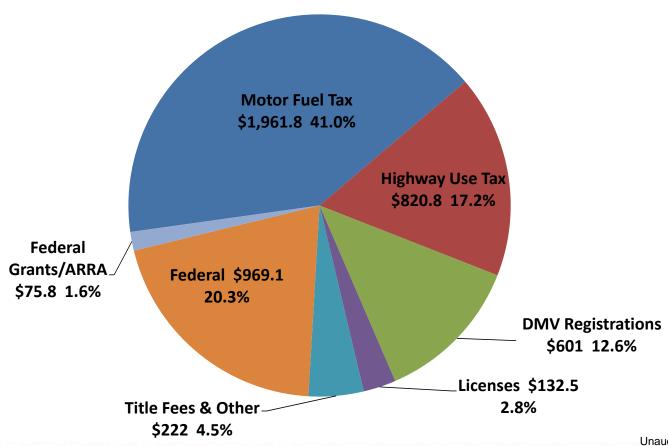
# 60 Month Revenue & Expenditure Projections as of July 2017



### ncdot.gov

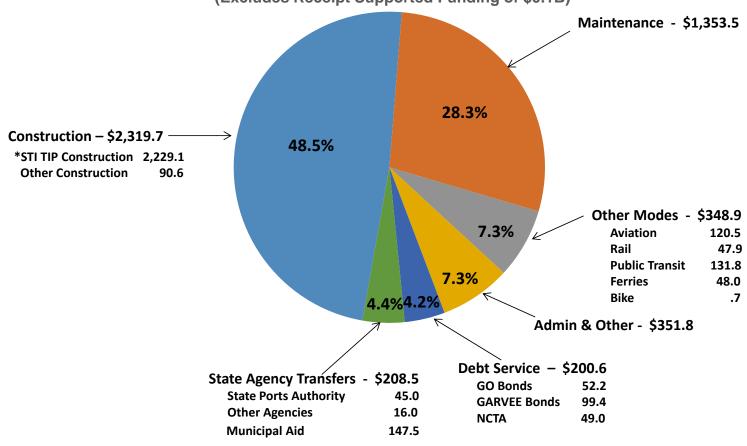
### NCDOT Revenue Sources SFY2018 - \$4.8 Billion

(Excludes Receipt Supported Funding of \$0.1B)



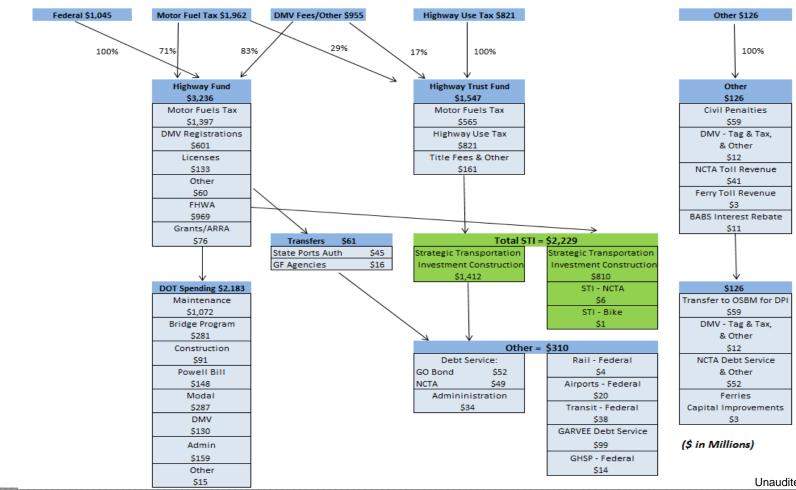
### Uses of 2017-18 NCDOT Appropriations Total Funding = \$4.8 Billion

(Excludes Receipt Supported Funding of \$0.1B)

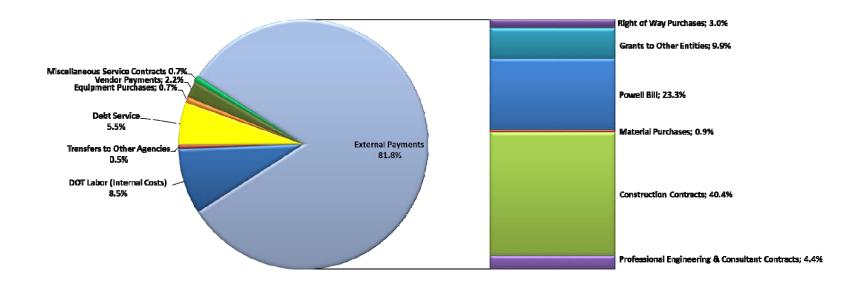


(\$ in millions)

# SFY2018 NCDOT Sources and Uses Total Funding = \$4.9 Billion



### **NCDOT Expenditures** SFY2018 as of July 31, 2017























## FY 2018 Maintenance Allocations

Patrick Norman, PE – Director of Highway Operations September 6, 2017

# Fiscal Year 2018 Highway Fund (HF) Appropriations Session Law 2017-57

Funding Program	Appropriation
General Maintenance Reserve (GMR)	\$290,839,876**
*Roadside Environmental (RE)	\$104,000,000
Contract Resurfacing (CR)	\$503,432,709
Pavement Preservation (PP)	\$100,161,756
Bridge Program (BP)	\$281,158,738
*Bridge Preservation (BPR)	\$80,000,000
TOTAL:	\$1,359,593,079

<sup>\*</sup> New programs created in session law 2017-57

<sup>\*\*</sup> Includes \$6,042,886 of previously undistributed GMR

# 2017/2018 HF Appropriation Comparison

Program	2018	2017
General Maintenance Reserve (GMR)	\$290,839,876	\$467,583,999
*Roadside Environmental (RE)	\$104,000,000	N/A
Contract Resurfacing (CR)	\$503,432,709	\$497,946,495
Pavement Preservation (PP)	\$100,161,756	\$85,045,024
Bridge Program (BP)	\$281,158,738	\$242,374,444
*Bridge Preservation (BPR)	\$80,000,000	N/A
TOTAL:	\$1,359,593,079	\$1,292,949,962

<sup>\*</sup> New programs created in session law 2017-57

# General Maintenance Reserve (GMR)

Total GMR Appropriation	\$290,839,876	
Enterprise Programs	<u>Allocations</u>	
Emergencies	\$36,155,234	
Research and Development	\$4,121,142	
Asset Maintenance & Operation	\$11,103,779	
State & Federal Obligation	<u>\$8,530,000</u>	
Subtotal	\$59,910,155	
Division Allocations	\$230,929,721	

# Roadside Environmental (RE)

Total RE Appropriation:	\$104,000,000	
Enterprise Programs	<u>Allocations</u>	
Rest Area Renovation & Repair	\$4,125,000	
Inmate Labor	\$200,000	
Litter & Mowing Contract Management	<u>\$370,000</u>	
Subtotal	\$4,695,000	
Division Allocations	\$99,305,000	

# Contract Resurfacing (CR)

Total CR Appropriation:	\$503,432,709
Enterprise Programs	<u>Allocations</u>
Pavement Condition Survey Programs	<u>\$4,375,000</u>
Subtotal	\$4,375,000
Division Allocations	\$499,057,709

# Pavement Preservation (PP)

Total PP Appropriation:	\$100,161,756*
Enterprise Programs	<u>N/A</u>
Division Allocations	\$100,161,756

<sup>\*</sup> Includes \$15M additional appropriation for maintenance of pavement markings and markers

# Bridge Program (BP)

Total BP Appropriation:	\$281,158,738
Enterprise Programs	<u>Allocations</u>
Statewide Bridge Replacement Projects	<u>\$138,158,738</u>
Subtotal	\$138,158,738
Division Allocations	\$143,000,000

# Bridge Preservation (BPR)

Total BPR Appropriation:	\$80,000,000
Enterprise Programs	<u>Allocations</u>
Statewide High Value Bridge Preservation Projects	\$40,000,000
Subtotal	\$40,000,000
Division Allocations	\$40,000,000

## FY 2018 Division Distribution

Division	General Maintenance Reserve (GMR)	Roadside Environmental (RE)	Contract Resurfacing (CR)	Pavement Preservation (PP)	Bridge Program (BP)	Bridge Preservation (BPR)
1	\$13,047,134	\$6,993,791	\$37,828,588	\$6,039,683	\$6,602,807	\$2,968,123
2	\$13,560,641	\$5,731,955	\$35,837,937	\$5,834,338	\$8,192,187	\$2,450,080
3	\$16,420,471	\$6,820,333	\$37,716,447	\$6,776,387	\$8,836,472	\$2,623,559
4	\$16,229,953	\$9,378,932	\$37,958,077	\$8,241,686	\$8,021,039	\$2,831,679
5	\$22,380,468	\$7,640,706	\$49,142,204	\$6,681,007	\$8,554,543	\$3,613,495
6	\$15,443,029	\$8,024,631	\$32,409,395	\$7,615,054	\$7,241,772	\$2,135,981
7	\$19,480,344	\$6,504,268	\$33,358,942	\$6,265,331	\$13,271,215	\$2,916,175
8	\$16,177,951	\$7,261,372	\$43,108,865	\$8,207,644	\$8,434,253	\$2,478,812
9	\$16,967,618	\$6,317,984	\$26,602,731	\$7,577,577	\$8,684,132	\$2,461,503
10	\$19,451,454	\$6,847,615	\$33,402,651	\$5,915,211	\$8,473,873	\$3,117,456
11	\$13,958,992	\$6,548,598	\$31,719,373	\$9,116,878	\$16,543,946	\$2,751,956
12	\$17,760,959	\$7,518,982	\$35,416,629	\$7,631,120	\$11,483,983	\$2,629,462
13	\$16,009,162	\$7,037,194	\$31,956,803	\$6,767,027	\$16,587,648	\$3,687,549
14	\$14,041,545	\$6,678,639	\$32,599,067	\$7,492,813	\$12,072,130	\$3,334,170
Total:	\$230,929,721	\$99,305,000	\$499,057,709	\$100,161,756	\$143,000,000	\$40,000,000

## Questions?

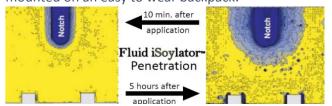


# North Carolina Department of Transportation Transportation Program Management Unit - Value Management Innovative Technologies and Products Awareness Report September 6, 2017

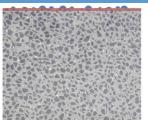
#### PRODUCT HIGHLIGHT - FLUID ISOYLATOR

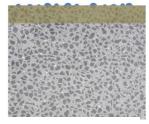
Fluid iSoylator is a bio-based, penetrating, hydrophobic concrete sealant – an alternative product to traditional solvent based silane film treatment. Unlike traditional sealants that create a film over the surface, Fluid iSoylator is absorbed into the open pores in the concrete to plug them. This is a more effective way of blocking water and salt from infiltrating inside the pores which in turn prevents the freezing and thawing cycle of water from occurring inside the concrete pores over the winter months. The ongoing freezing and thawing creates new cracks in the concrete and causes continuous damage and deterioration.

Additionally, the product has no residual slickness once absorbed. Fluid iSoylator is a USDA certified bio-based product containing 93% USDA certified bio-based content. It can be applied quickly and efficiently through a sprayer mounted on an easy to wear backpack.



Images display application after 10 minutes and following 5 hours.





**Tradition Film Sealants** 

Fluid iSoylator

This product was developed in part by the Indiana DOT's innovation program and has completed several field trials in Indiana. These field trials have been successful and have shown cost savings in addition to improved installation productivity with its easy installation method. This product is currently approved on the NCDOT Approved Products List.



Plain Fluid iSoylator™ SBS

Final results from ASTM C 666 freeze-thaw testing. SBS is solvent based silane film treatment

#### PRODUCT INNOVATION - POLYESTER POLYMER CONCRETE OVERLAY



I-95 Cumberland & Harnett County

A Polyester Polymer Concrete (PPC) bridge overlay is a mix of sand, stone, and polyester resin that is an alternative to Latex Modified Concrete (LMC) and high performance concrete overlays. The overlay material allows for a quick set time and little preparation which reduces cost and excessive road closures. PPC was developed in the 1980's but until recently was not used in the southeast because of the scarcity of contractors certified to do this type of work in the region. Recently, a PPC contractor has come to North Carolina and NCDOT found a suitable trial site. PPC was used on the I-95 project in Cumberland and Harnett Counties which was completed in late 2016. After milling the pavement, a small amount of unsound areas along the bridge were repaired with full depth PPC followed by a full deck PPC overlay. PPC cannot be applied in wet conditions or in conjunction with deep chloride removal but when the conditions are right it has significant time and cost savings. It can be applied in any dry condition where the structural integrity of the bridge has not been compromised. The I-95 project saved 30% in costs when compared to LMC and with a 2 hour traffic ready cure rate the road was reopened quickly. Following this project, PPC will be used more consistently throughout NCDOT on bridge projects where applicable.



# North Carolina Department of Transportation Transportation Program Management Unit - Value Management Innovative Technologies and Products Awareness Report August 2, 2017

#### TECHNOLOGY INNOVATION - Non-Motorized Volume Data Program

There is currently no extensive practice for counting bicycle and pedestrian traffic in any DOT across the USA. The NCDOT Bicycle and Pedestrian Division partnered with Research and Development Office and Institute for Transportation Research and Education (ITRE) to come up with a Non-Motorized Volume Data Program (NMVDP). They opted to use Eco-Counter products - a company that provides a range of automated pedestrian and cycling counting systems. For more information: <a href="http://www.eco-compteur.com/en">http://www.eco-compteur.com/en</a>.

These sensors count pedestrians and cyclists and include the direction of travel for their data collection. They are installed above and below ground as needed for accurate counting at the selected location. The data collection system was piloted in Divisions 7 and 9 in the Triad region. Two years of complete data has been collected.



Figure 7. Example site diagram; aerial image shows location of equipment and sensors, labeled facilities, and is oriented north.

The data collected can be used when determining funding and needs for bicycle and pedestrian transportation projects. The data assists in project planning, aids in project monitoring and performance measurement, provides analytical processes and supports trend analysis.

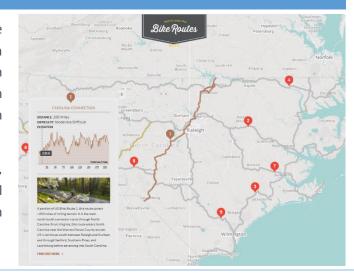
Presently, the Department can only rely on qualitative, subjective, and limited crash data to further the bicycle and pedestrian transportation programs. By having accurate data on all modes of transportation, the Department can better make decisions for current and upcoming transportation needs by reviewing comprehensive counting data.

A full copy of the report can be found: https://itre.ncsu.edu/wp-content/uploads/2016/05/Phase-I-Report.pdf.

#### TECHNOLOGY HIGHLIGHT – NC BikeWays

NC BikeWays provides an interactive website to allow you to explore bike routes across North Carolina. There are nine (9) routes that can be followed of varying difficulties. Through NC Bike Ways you can gather information on elevation, distance, difficulty, and a description of the route. The website also allows you to download turn-by-turn directions from various locations along the selected route.

The next phase of the NC Bike Ways website is to have interactive, voice directed turn-by-turn directions provided through GPS. This will allow the user to effortlessly and safely follow their selected trip. Plan your trip at https://www.ncdot.gov/bikeped/ncbikeways/.





# NC State Freight Plan

Board of Transportation,
August 2017





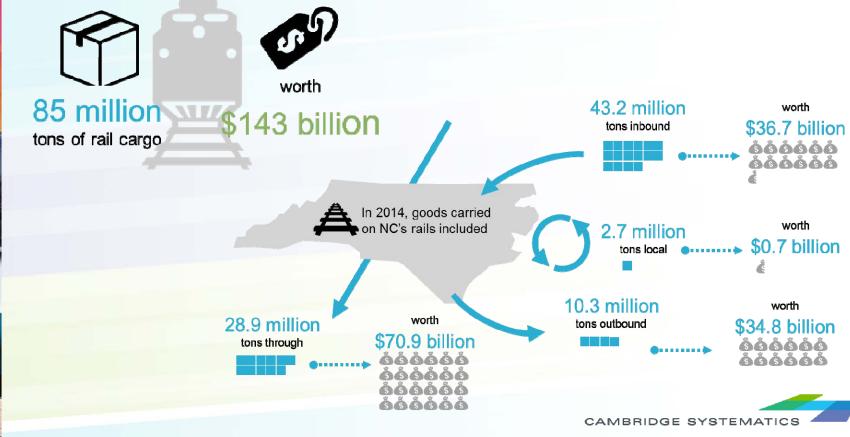
#### Key FAST Act Freight Provisions

- National Freight Highway Program sets aside \$167 mil. NC formula freight funds over 5 years, averaging \$33.4 mil. per year
- Must have approved State Freight Plan to access funds
- NC formula funds useable on network with 3 components:
  - » Primary highway freight system: 1,034 miles of NC interstates and intermodal connectors already designated by US DOT
  - » Critical Rural Freight Corridors: 207 miles statewide, designated by NCDOT
  - » Critical Urban Freight Corridors: 103 miles statewide, designated by NCDOT, including consultation with Capital Area MPO and Charlotte Regional TPO





#### Freight Rail Tonnage





#### Freight Rail Challenges and Needs

- Maintain/improve track capacities, especially on Class II and III systems, for priority corridors
- Improve safety and strive to minimize delays.
- Improved access and service to North Carolina's ports.
- Plan for increased passenger rail demand.
- Maintain short line support programs such as the Rail Industrial Access Program and Short Line Industrial Access Program via FRRCSI funds.
- Continue efforts to partner with railroads to evaluate new/expanded intermodal facilities to help mitigate future highway congestion in urban areas





#### Maritime Freight Volumes





**Port of Wilmington** 

## Maritime Challenges and Needs

On-site:	On-site:		
<ul> <li>Consider having separate main gate lanes to minimize processing times of freight</li> </ul>	<ul><li>Move military operations to Radio Island</li><li>Optimize on-site routing</li></ul>		
Optimize on-site routing	Ü		
Road (same concepts for both ports):			
Regularly optimize traffic signals			
Use variable message signs to notify travelers when the at-grade crossings will be closed			
Create a cellphone app that updates drivers directly when the crossings will be closed			
Rail:	Rail:		
<ul> <li>Work with Wilmington Terminal Railroad to eliminate non-port freight from being handled</li> </ul>	<ul> <li>Prioritize train movements through town to minimize closings of at-grade crossings</li> </ul>		
on port property	<ul> <li>Investigate having NS drop/pick up cars west of the town and short line conduct operations through town at more convenient times</li> </ul>		

**Port of Morehead City** 

CAMBRIDGE SYSTEMATICS



### Air Cargo Volumes





#### Air Cargo Challenges and Needs

- Airport access
  - » US 70 and access to GTP
  - US 64 and US 17 access to RDU and eastern NC
  - » Rail spur at GSO
  - The I-85/I-485 interchange, which is directly northwest of the CLT campus
- Runway and facility needs
  - » Extend CLT runway to 12,000 feet
  - » RDU expanding a runway to 11,500
  - » Numerous supporting facilities at GSO aimed at enhancing air cargo handling efficiency
- Industrial development needs





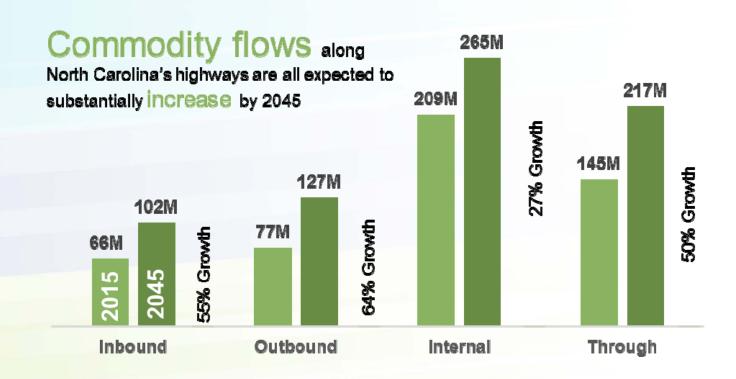
## Highway Freight – 2015







### Highway Freight – 2015 to 2045







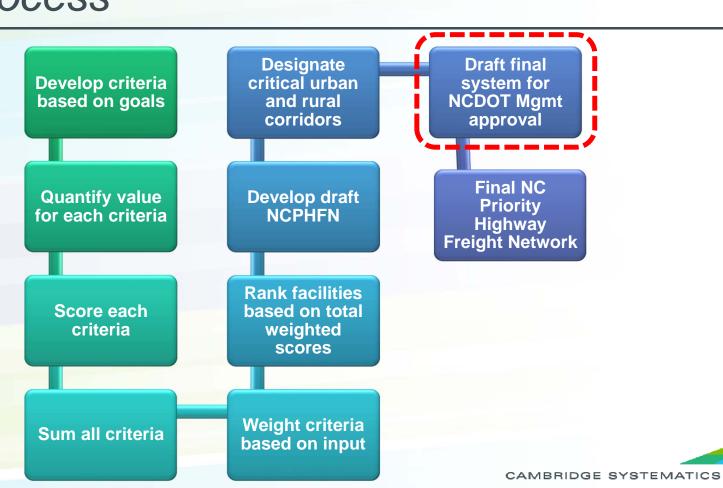
#### Key Challenges and Needs

- Maintain good state-of-repair and modernize the interstates
- Address capacity needs along key freight routes
- Plan for new technology
- Improve connectivity to existing and new freight terminals
- Ensure adequate, safe truck parking
- Address needs for connectors to fuel terminals





# NC Highway Freight System Designation Process



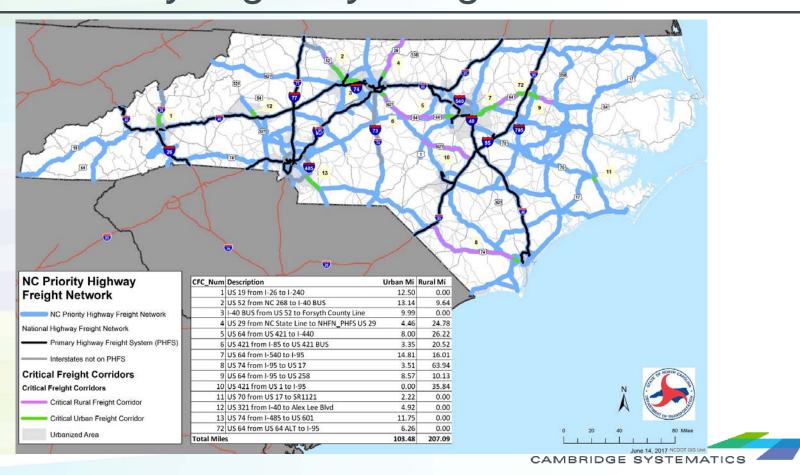


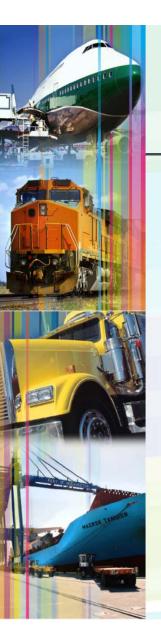
## Identifying Candidate and Final Critical Urban and Rural Freight Corridors

- Meet FAST Act requirement
- Highest scoring in designation process
- Support from stakeholders
- Current STIP project



### NC Priority Highway Freight Network





#### Freight Plan Project Identification Process

#### **Needs Assessment**

Stakeholder Input

Data analysis of existing and future conditions and demand

Project Identification

Compare existing planned projects to needs assessment

Develop strategic projects

Prioritization

Develop evaluation criteria

Screen and evaluate projects

Freight Investment Plan





#### Schedule

Aug 18
Draft plan
to NCDOT

Sept BOT meeting-Adoption

Oct 4 FHWA review

Dec 4 FHWA Approve





#### **NORTH CAROLINA**

Department of Transportation



















## NC Statewide Freight Mobility Plan

Charles HW Edwards, Director – Logistics & Strategic Planning

September 6, 2017

# Why?

- FAST Act December 2015
  - Access to \$166.8M over 5 years
- Comprehensive Perspective of NC's freight transportation and logistics platform
  - Information for planning
- Basis for adjusting STI scoring
  - Highlight freight related projects (all modes)

# Goal and Objectives

Meeting the growing needs of the state to compete globally for quality jobs, provide safe and efficient goods mobility, and build quality communities.

**Economic** development

Efficiency, reliability and resiliency

Sustainable funding

Improve,
maintain and
preserve
freight assets

**Partnerships** 

Safety and security

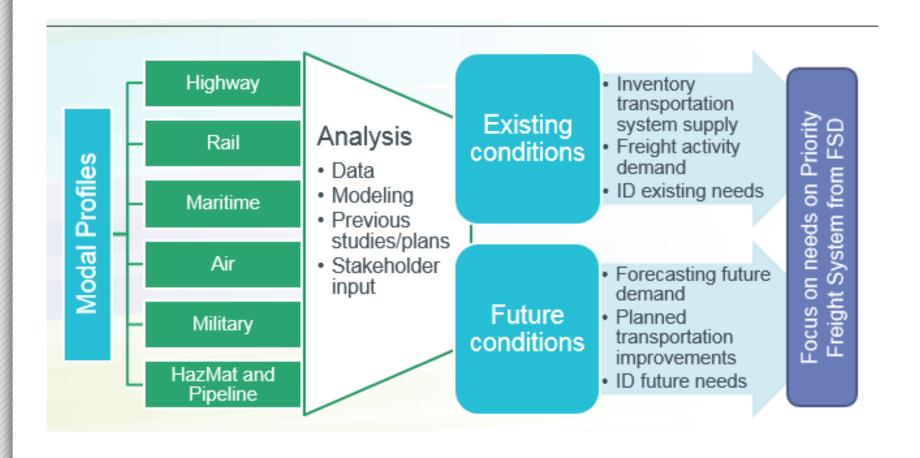
Freight technologies

Natural environment

#### Who?

- Consultant team
  - Cambridge Systematics, AECOM, Volkert, IEM,
     Baseline Mobility
- NCDOT
- Freight Advisory Committee
  - planners, companies, business organizations

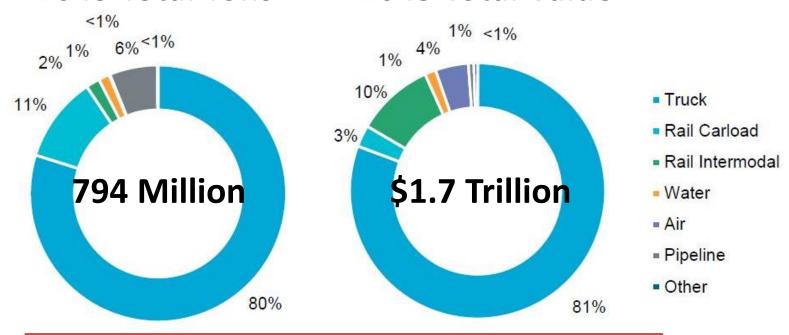
### How?



### What?



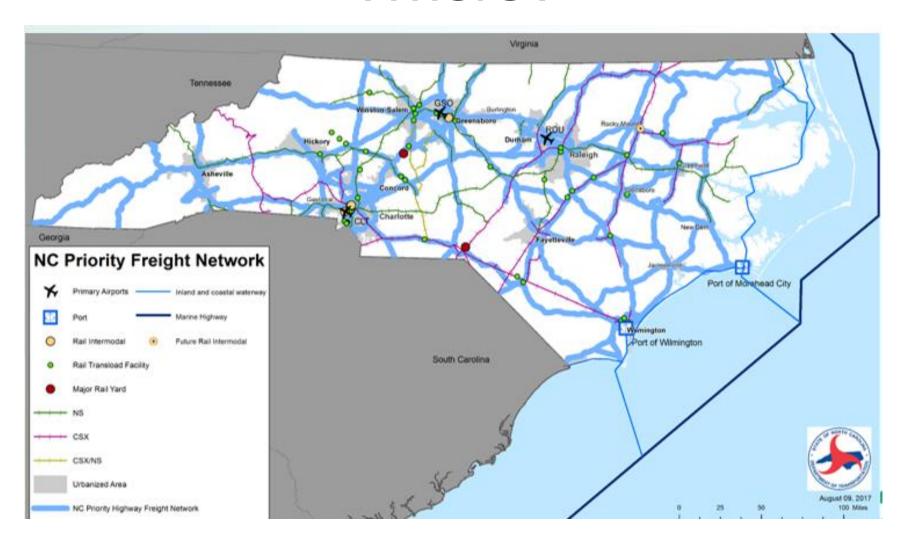
#### 2045 Total Value



2015 Total Tons: 557 Million 2015 Total Value: \$955 Billion

Source: Cambridge Systematics disaggregation of FAF4.1 2012-2045 data, 2012 STB Waybill rail data, and 2045 STB Waybill rail data forecasted by Cambridge Systematics.

## Where?



#### What's Next?

Strategy

- Create a unique statewide strategy
- Multi-modal approach
- Business needs driven

Tactical

- Technologies / alternatives
- Project identification / development / design
- STI Scoring process

Delivery

- Project selection and funding
- Project phasing and delivery

# Alternative Strategies

- Immediate funding address a current or near-term need
- Robust Strategies are needed but not necessarily immediate priorities
- Hedging Strategies might or may not be needed
- Transformative Strategies NC agencies shape the future
- Deferred Strategies wait and see what happens

# Transformative Strategies

#### Invest in a world-class transportation network

Increase major road and rail capacity necessary for accessing the ports

Increase container cargo capacity and handling capabilities

Increase bulk cargo capacity and handling capabilities

#### Ensure attractive investment climate

Workfore development

Competitive costs

Community and political support

Foreign trade zone and import/export assistance

#### Develop key partnerships

Federal, state and local public partners

Private sector including railroads, steamship liners and developers

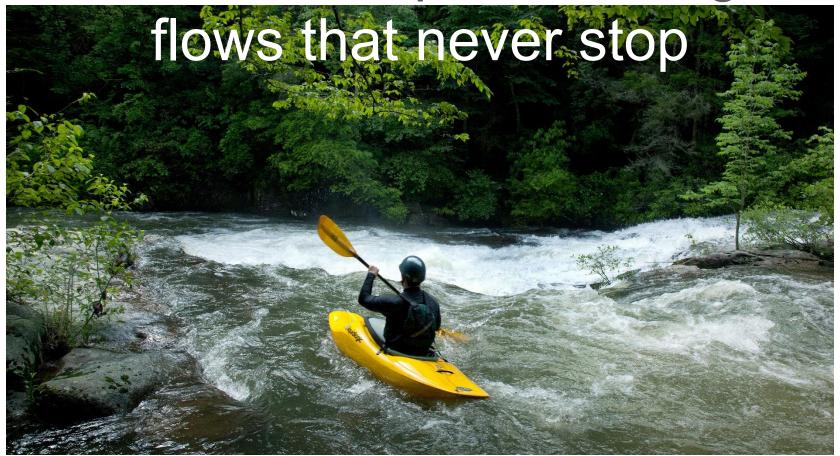
Financing community

Communities, residents and businesses

# Prioritizing Freight Projects

Prioritization Criteria	Goal Area
Project supports access for freight-related target supply chains	Economic
Project supports economic preparedness	Competitiveness
Project supports freight employment intensity	
Project improves freight operational efficiency	
Project increases travel time reliability	
Project improves access to freight terminal (on facilities from port/terminus to freeway)	Mobility
Project improves access to Megasite	and Reliability
Project eliminates at-grade crossings on the NCPFN	
Project reduces freight travel time	
Project enhances the state of good repair on the NCPFN	Asset Management
Project addresses a freight safety hotspot	
Project enhances safety on a Primary Extremely Hazardous Substance (PEHS) corridor	Safety
Project eliminates rail crossings with no active warning devices	
Project encourage truck to rail diversion	Environmental Stewardship
Project has an alternate source for funding	Sustainable Funding
Project improves access to real-time travel information on the NCPFN	Technology

# NCDOT - We plan for freight





# ECONOMIC DEVELOPMENT AND INTERGOVERNMENTAL RELATIONS MEETING MINUTES

DATE:	6/28/17	TIME:	3:40 pm	LOCATION:	150
		_		<u>-</u>	

MEETING CALLED BY	Chairwoman Valerie Jordan
BOARD ATTENDEES	Cullie Tarleton, Hugh Overholt, John Pope, Daniel McComas

#### **AGENDA TOPICS**

1. MEETING CALL TO ORDER AND APPROVAL OF MAY 31MINUTES – CHAIRWOMAN VALERIE JORDAN					
DISCUSSION SUMMARY	Chairwoman Jordan 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 May 31, 2017 EDIR committee meeting minutes as distributed was made by Ms. Jordan and approved by Mr. Overholt. The committee approved unanimously.				

2. TOURISM EVENT DISCUSSION - BOARD MEMBER TRACY DODSON						
DISCUSSION SUMMARY  Board member Tracy Dodson presented information on the 99th PGA Tournament to be hosted in Charlotte, NC in August. Mrs. Dodson highlighted the economic impact of na events in the state and the role of NCDOT divisions.  Division Engineers, Brandon Jones (Div. 8), Louis Mitchell, (Div 10) and Ed Greene, (Div. 8), highlighted events in their divisions and how they worked with event officials to ensure public safety.						
ACTIONS TAKEN	No action taken.					

3. GENERAL ECONOMIC DEVELOPMENT DISCUSSION – EDIR COMMITTEE MEMBERS						
DISCUSSION SUMMARY	Board member asked had question about minority contracting and how we are moving forward.					
ACTIONS TAKEN	Chief Howard will have an update on minority contracting at the next meeting.					

Adjourned 4:45



# ECONOMIC DEVELOPMENT AND INTERGOVERNMENTAL RELATIONS (EDIR) AGENDA

# BOARD OF TRANSPORTATION SEPTEMBER 6, 2017

TIME: 3:50

LOCATION: Rm. 150

Торіс	PRESENTER	Тіме
Call to Order Roll Call Declaration of Quorum Approval of May 31, 2017 Meeting Minutes	Valerie Jordan, Chair	3:50-3:55
Introduction of Shelby Scales to the Committee	David Howard, Chief Deputy Secretary	3:55-4:00
Presentation, DBE metrics, HBCU metrics (intern summary, outreach efforts, etc.) and On the Job training metrics.	Shelby Scales, Civil Rights Director	4:00-4:20
Introduction of Workforce Development Opportunities with NCDOT	David Howard, Chief Deputy Secretary	4:20-4:30
Transportation Engineering Associates (TEA) Program	Chandra Cross, TEA Program Manager	4:30-4:40
Comments and Wrap up	Valerie Jordan, Chair	5:00-5:05
Adjourn	Valerie Jordan, Chair	5:05-5:10

EDIR AGENDA September 6, 2017





















Economic Development & Intergovernmental Relations Committee

# Office of Civil Rights Overview & DBE/MBE/WBE updates

Shelby M. Scales, Director

September 6, 2017

## Recruit, Train, Retain and Grow



# **Equal Access**

#### **Americans with Disabilities Act**

(ADA) – equal access to all transportation facilities

**Title VI** – No discrimination from government agencies/programs receiving federal funds

**Title VII** – No discrimination from employers



## Title VI Nondiscrimination Program

• Bars both intentional (disparate treatment) and unintentional (disparate impacts/effects) discrimination on the bases of race, color, national origin, sex, age, disability, income-level, or religion.

### Key outcomes:

- Title VI Plans for FHWA, FTA, FMCSA, FAA
- Limited English Proficiency (LEP)
- Environmental Justice (EJ)
- Compliance Reviews of agency and sub-recipients

## **EEO** program objectives

- Set results-oriented placement goals (objectives)
- Implement program activities that support objectives
- Ensure that persons with disabilities have equal access to employment
- Provide objective complaint investigation without fear of reprisal
- Eliminate adverse impact in human resource actions
- Provide a workplace free of discrimination
- Pursue workforce utilization parity

Our challenge is to address the persistent underutilization of minorities in the workforce.

## Future Opportunities in EO

 An analysis of 1391 reporting from FFY 2014-2016 indicates that the proportion of minorities and females in the overall workforce on federal-aid highway projects was relatively flat and the total construction workforce declined, but total dollar value increased.

	2014	% of Total Workforce	2015	% of Total Workforce	2016	% of Total Workforce
NUMBER OF PROJECTS	304		275		255	
DOLLAR VALUE	\$2,738,727,267		\$3,809,981,338		\$4,521,340,520	
TOTAL WORKFORCE	5921		6616		5695	
MINORITY EMPLOYMENT	2991	51%	3227	49%	2827	50%
HISPANIC	1739	29%	1709	26%	1420	25%
BLACK	1104	19%	1303	20%	1175	21%
FEMALE	230	4%	255	4%	202	4%

• FHWA accepted a pilot project developed by the EO Team for FFY 2018-2019. The team will conduct Technical Assistance Reviews with the goal of helping contractors develop federally-compliant EEO Programs without first having to go through a compliance review that issues a determination of compliance or noncompliance.

# **Equitable Employment Solutions**

**Equal Opportunity Contract Compliance (EOCC)** 

**On-the-Job Training (OJT)** 

Summer Interns from Historically Black Colleges and Universities (HBCU)

National Summer Transportation Institute (NSTI)

## On The Job Training

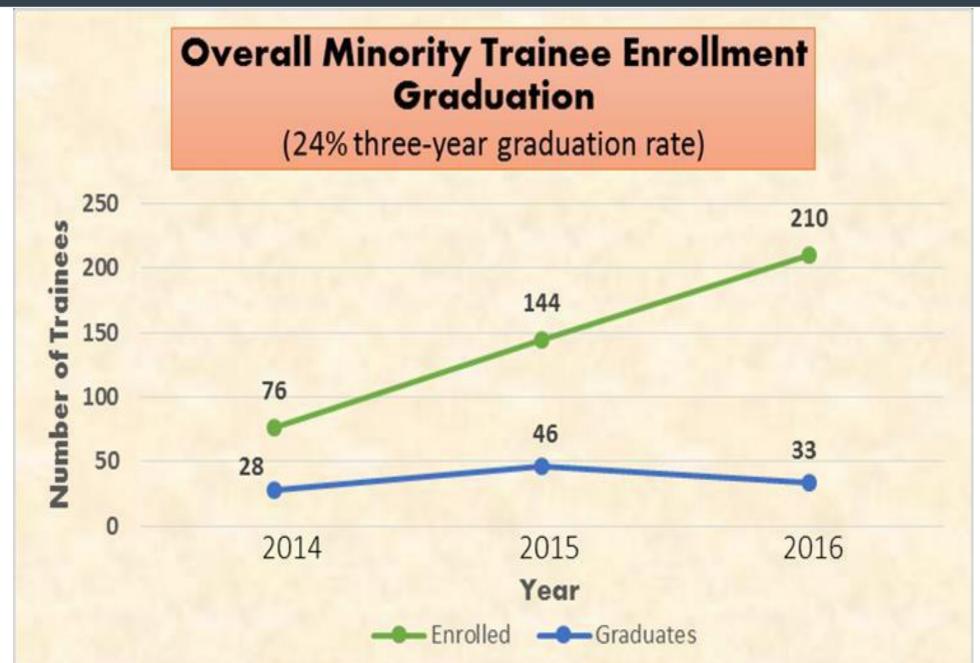
Support the State's Highway Construction Industry in establishing, developing and maintaining a skilled diverse workforce that will fulfill the present and future needs of highway construction industry while increasing minority and female participation in the industry.



# **OJT Significant Resource**

## Total Impact of OJT Salaries from 2014-2016

Year	Dollar Amount	Percentage of GDF
2014	\$3,042,249.60	0.0007%
2015	\$5,702,195.20	0.0012%
2016	\$8,122,400.00	0.0018%
Total	\$16,866,844.80	



National Summer Transportation Institute's mission is to create awareness of opportunities that exist in the transportation industry.

### **5 Sites**

- > Elizabeth City State University's High School
- > Elizabeth City State University's Middle School
- University of North Carolina Pembroke
- North Carolina Agricultural and Technical State University
- Vance Granville Community College



# NCDOT is open for Business!

RECRUIT TRAIN RETAIN GROW

# Pathway to Opportunity

Professional Services

- (SPSF) Service Contracts/Procurement Projects
- \$250,000 or less

Construction

• (DBE, WB, MB) Federal or State Funded

Maintenance

- (SBE, WB, MB=DBE Apr. 2018)
- Firms with Revenue less than \$500k
- Division Level

# **Business Opportunity**

Small Professional Service Firm (SPSF)

Disadvantaged Business Enterprise (DBE)

Minority-owned Business Enterprise (MBE)

Woman-owned Business Enterprise (WBE)

Small Business Enterprise (SBE)

## **SPSF Utilization**

State Fiscal Year 2017 (July 1, 2016 through June 30, 2017)

SPSF REPORT	Total A3 Consulting Award \$	Consulting Contract Awards \$250K or less	SPSF (A3 contracts to certified firms)
JUL 2016-SEP 2016	\$ 77,265,696	\$ 36,589,665	\$ 18,257,468
OCT 2016-DEC 2016	63,920,095	25,986,356	12,948,597
JAN 2017-MAR 2017	106,677,199	46,951,754	28,463,616
APR 2017-JUN 2017	98,010,189	33,989,610	20,899,915
	\$ 345,873,179	\$ 143,517,385	\$80,569,596
		41%	56%

# **Utilization Goals Update**

#### **Federal LET Contracts**

October 2016 through June 2017

Value Of Contract	DBE Goals Set		DBE Participation Submitted	n	DBE Pa	articipatio	on Split WB	
\$	\$	%	\$	%	\$	%	\$	%
84,096,586.42	6,804,574.91	8.1	7,344,303.10	8.7	3,333,041.70	4.0	4,011,261.40	4.8
495,855,568.10	39,796,882.76	8.0	41,221,702.30	8.3	11,317,914.00	2.3	29,903,788.30	6.0

Monthly

FY to Date

Monthly

FY to Date

Unit Goal	Result	Target Met	2016–2018 Triennial Goal	2016–2018 Trend
8.1%	8.7%	<b>/</b>	13.7%	1
8.0%	8.3%	<b>/</b>	13.7%	<b>↓</b>

# **Utilization Goals Update**

#### **State LET Contracts**

July 2016 through June 2017

Monthly

FY to Date

Value Of Contract	MB Goals Set		MB Participation Sub	mitted	WB Goals Set		WB Participation Subr	mitted
\$	\$	%	\$	%	\$	%	\$	%
123,571,637.43	3,289,089.25	2.7	3,360,389.50	2.7	5,483,187.31	4.4	6,195,412.50	5.0
643,658,330.00	17,271,059.71	2.7	19,480,585.50	3.0	26,133,424.12	4.1	29,401,184.20	4.6

	Unit Goal Minority- Owned Businesses	Result	Target Met	2016–2018 Triennial Goal	2016–2018 Trend
Monthly	2.7%	2.7%	/	5.7%	1
FY to Date	2.7%	3.0%	<b>/</b>	5.7%	1

Unit Goal Woman- Owned Businesses	Result	Target Met	2016–2018 Triennial Goal	2016–2018 Trend
4.4%	5.0%	<b>\</b>	6.1%	1
4.1%	4.6%	<b>/</b>	6.1%	1

## SBE Utilization

State Fiscal Year 2017 (July 1, 2016 through June 30, 2017)

SBE REPORT	Total Construction Original Award \$	Total Contracts \$500K or Less	Award value SBE	
JUL 2016-SEP 2016	\$ 443,096,314	\$ 24,790,305	\$ 4,878,454	
OCT 2016-DEC 2016	555,782,815	48,076,703	4,578,917	
JAN 2017-MAR 2017	363,332,720	42,678,683	3,900,166	
APR 2017-JUN 2017	629,528,520	34,666,741	5,219,205	
SFY 2016 TOTAL	\$ 1,991,740,369	\$ 150,212,432	\$ 18,576,742	
		7.5%	12.4%	

# MB/WB CERTIFIED FIRMS WORK TYPES

	TOTAL		PREQUALIFIED	
Work Types	MBE	WBE	MBE	WBE
Reinforcing Steel	23	7	15	5
Pavement Markings	19	15	3	11
Landscape - Erosion Control	124	89	40	54
Rip Rap - Slope Protection	0	1	0	1
Guardrail	29	13	4	9
Incidental Concrete and Masonry	132	47	35	21
Storm Drains	26	21	20	37
Hauling and Trucking	333	118	162	88
Clearing and Grubbing	69	35	19	35
Construction Surveying	12	5	2	4
Fence Installation	32	10	5	10



# STRATEGIES FOR BUSINESS OPPORTUNITY WORKFORCE DEVELOPMENT (BOWD)

- Align **Industry Days** with **Opportunity Forecasts** to recruit DBE, SBE and SPSF firms.
- > Strategic enrollment of firms in Business Development Program (BDP and BOWD).
- Reinstate industry relevant trainings such as MEEI, foundational courses.
- Technology to support vendor relationship management and certification processing.
- Strategically source networking opportunities based on GIS mapping of projects and marketplace data points.

## **Policy and Legislative Impacts**

OCR will actively seek ways to remove barriers to access and participation by working collaboratively with our agency colleagues, industry partners, vendors legislators.

**OCR** will deliver relevant services with an understanding of the industry, innovative solutions and customer driven products.

### **Contact Us**

**Office of Civil Rights** 

Main: (919) 508-1886

Website: www.ncdot.gov

Thank you!

Shelby M. Scales
Director, Office of Civil Rights



# FUNDING APPROPRIATIONS STRATEGIES COMMITTEE (FAST)

DATE: <u>June 28, 2017</u> TIME:	3:40pm LOCATION: EIC
MEETING CALLED BY	Chairman Tony Lathrop
	ony Lathrop, David Tyeryar, Allen Moran, Jack Debnam, Mike Wells, Grady Hunt, Nina Szlosberg-Landis, Landon Zimmer, Pat Molamphy
AGENDA TOPICS	
T TOLINDA TOTIOS	
1. MEETING CALL TO ORDER AND APPR	POVAL OF JUNE 2017 FAST MEETING MINUTES – CHAIR TONY LATHROP
DISCUSSION SUMMARY	Moved for approval by Grady Hunt Second by Nina Szlosberg-Landis
ACTIONS TAKEN	Unanimously approved
2. Topics – Chairman Tony Lathrop	
DISCUSSION SUMMARY	Chair Lathrop asked the Committee to strategically think about what they are interested in and how they want to use their time.
ACTIONS TAKEN	N/A
3. Cash Balance and S257 Compro	mise Budget – David Tyeryar
	By Fall of 2018, the Department should be under \$1 billion in October. The Legislature wants us to have six weeks of working capital (approx.40 days). Currently, we have 145 days of working capital. As of June 30, the Cash Balance of \$2.1 billion represents the top 10 contracts. Larger Projects - Bonding requirements make it harder for the industry to put together and is more difficult for us to manage. Putting together LLC's help get Bonds.
DISCUSSION SUMMARY	Guidance counselors – they are measured on four-year college curriculums. Not necessarily what we need. We need high school graduates and want those who go through technical training and community colleges.

**ACTIONS TAKEN** 

N/A



# FUNDING APPROPRIATIONS STRATEGIES COMMITTEE (FAST)

4. Analysis and Improvement Opportunities for Appraisals of Property (Construction Projects) Greg Perfetti					
DISCUSSION SUMMARY	Ongoing Lean Six Sigma Project – goals is to make improvements to the ROW acquisitions. Focus: Timely acquisition and fair compensation to landowners, and achieving acquisition with condemnation. Standard Protocol: 1. Data Collection 2. Map existing processes 3. Data Analysis to identify nonvalue added activities and steps that can be done earlier on combined. Identified Improvement Steps include: Formalize a preliminary plan review and partnership process for potential ROW issues, Automate Forms and populate multiple forms with same information to speed up the process, standardize the appraisal format for use by all appraisers. Using the same format and template will make it much easier for appraisers to review information and will save time. New appraisal process estimated time to be complete is 120 days.				
	Chair Lathrop summarized issues which are: negotiation issues (secretary level to negotiator level), appraiser labor availability (how much are we paying them, are they available). Asked staff to investigate more and have a more informed conversation next meeting. Give a metric about the speed (what is real impact on delivery time).				
ACTIONS TAKEN	N/A				

5. Meeting Adjourned – Chair Tony Lathrop			
DISCUSSION SUMMARY	Chair Tony Lathrop adjourned meeting at 5:00pm		
ACTIONS TAKEN	N/A		



# FUNDING APPROPRIATIONS STRATEGIES (FAST) COMMITTEE AGENDA

### BOARD OF TRANSPORTATION SEPTEMBER 6, 2017

TIME: 3:50pm-5:10pm

LOCATION: EIC

TOPIC	Presenter	TIME
Call to Order Roll Call	Tony Lathrop, Chair	3:50pm
Declaration of Quorum Approval of July 2017 FAST Meeting Minutes		
Bond/Borrowing Update	David Tyeryar	3:55pm
Transportation Funding	Burt Tasaico	4:05pm
Adjourn	Tony Lathrop, Chair	5:10pm



#### **NORTH CAROLINA**

Department of Transportation



















# Transportation Funding – Continued

Burt Tasaico, PE, State Program Analysis Engineer September 6, 2017

**Current Funding** State Funding SFY 2017 OF AMID RICA F41572798C F41572798C 6 Anna Escobedo Cabral PANRE DARDOR Highway Fees **Motor Fuel Tax** Use Tax 30% 50% 20%

75%
State
Funds

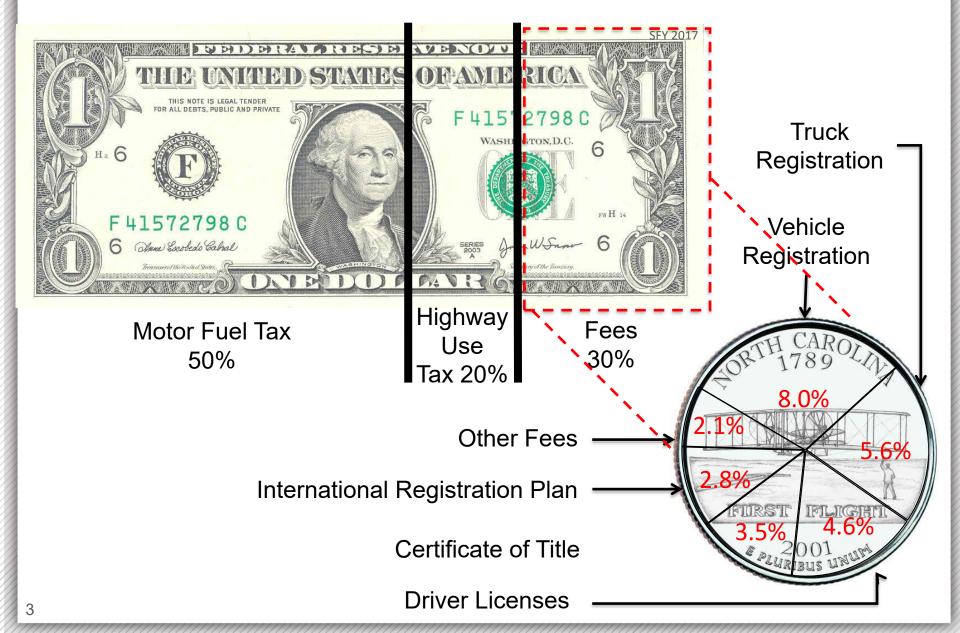
25%
Federal
Funds

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

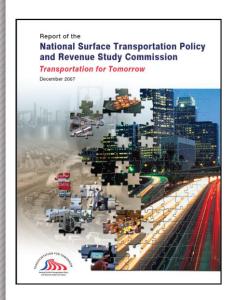


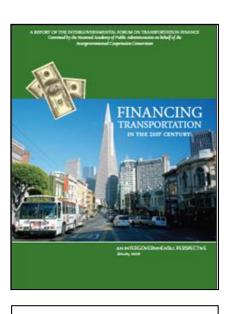
\*\$143.6 billion since 2008 (through 1/2016)

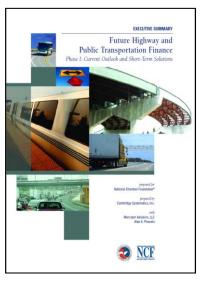
#### State Revenue Sources



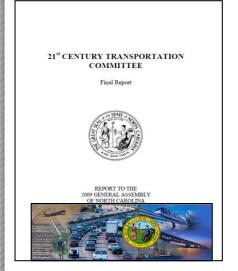
#### Previous Revenue Studies



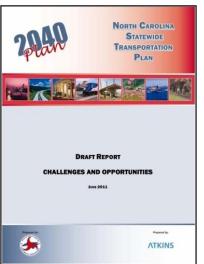




**National** 







State

#### ncdot.gov

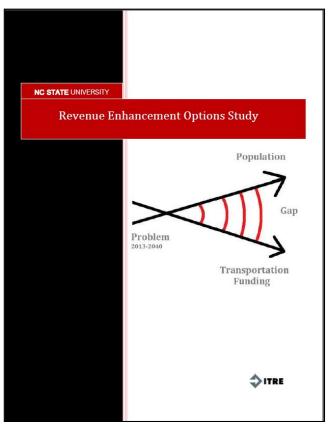
## 21st Century Transportation Committee - Recommendations

	Goal: \$1 billion per year for the next 10 years
	Eliminate Transfers (HF and HTF)
	Implement VMT (Statewide and Local Option)
<b>V</b>	Increase Highway Use Tax Rate and Class A & B caps
	Increase Passenger Vehicle Registration Fees
V	Increase Stagger Registration Fees
,	Consider Weight based Vehicle Registration Fees
$\sqrt{}$	Consider Bond Referendum
	Allow Local Option Tax
V	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)
1	Continue motor fuel tax indexing	19
$\sqrt{}$	Increase registration/license fees	6
V	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
3		√ Implemented

#### Recent Studies



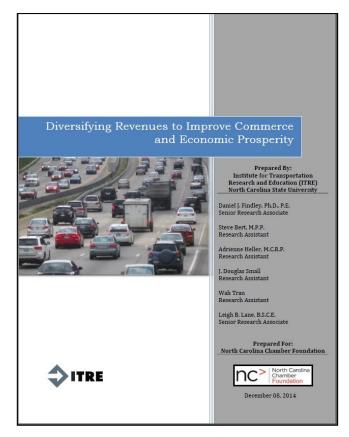
Do we have a crisis?

Do we need a paradigm shift?

What are our best options?

What are our next steps?

Annotated Bibliography Supplement



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

## Recent Studies – ITRE Revenue Options

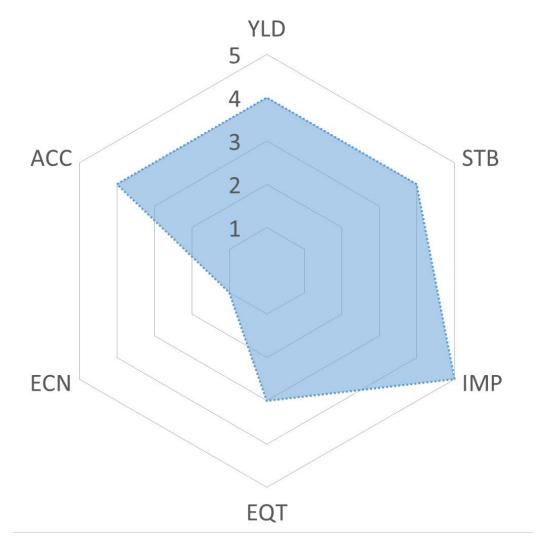
#### 16 options for revenue generation in North Carolina:

•	Vehicle	Miles	Traveled Fee	
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- Fine-based Fees
- Heavy Vehicle Fees
- Severance Fees
- Vehicle Title, Registration, Vanity Plate Fees
- Highway Use Tax
- State Motor Fuels Tax
- Flat-rate Tolling

- High-Occupancy Toll Lanes
- Property Tax
- Statewide Sales Tax
- Income Tax
- Cordon Pricing (Priced Zones)
- Payroll Tax
- Advertising Revenue
- Value Capture

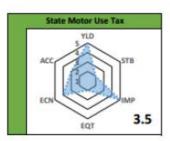
# Recent Studies – ITRE Revenue Ranking Criteria

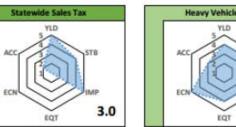


ABR	Criteria
YLD	Yield Adequacy
STB	Stability
IMP	Implementation and Administration
EQT	Equity
ECN	Economic Efficiency
ACC	Public Acceptance and Feasibility
Score	Ranked on 1 to 5 scale

## Recent Studies – ITRE Revenue Options Evaluation







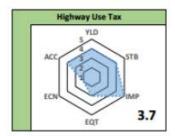


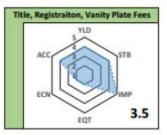
3.0



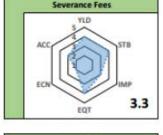
**Yield Adequacy** 

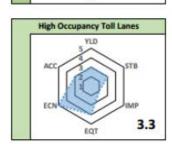
**Yield Adequacy** 



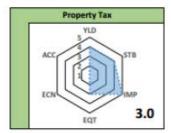


Income Tax





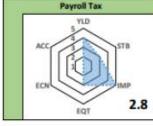
Flat-Rate Tolling

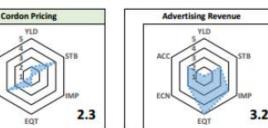


**Value Capture** 

3.3

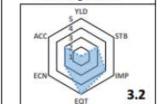








2.8



Source: Institute for Transportation Research and Education

#### State Revenue Sources: All

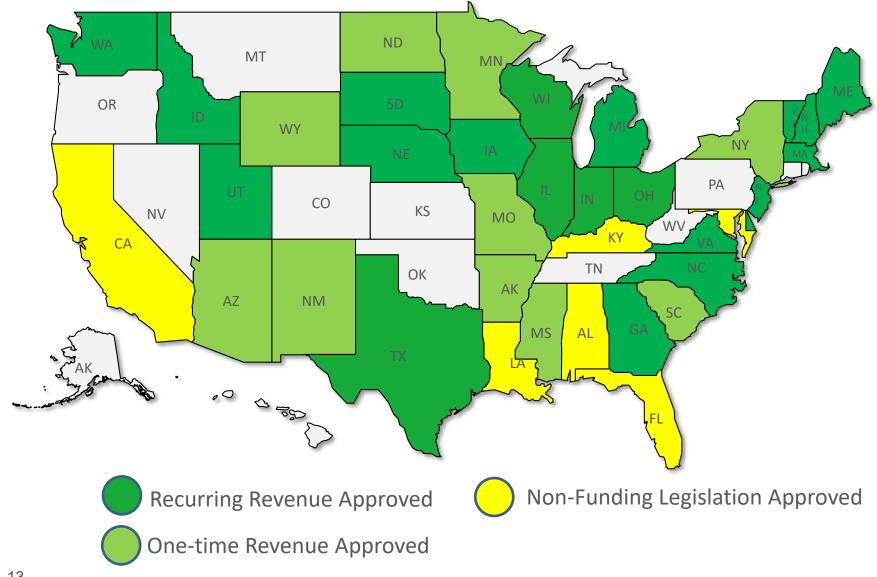
Ad Valorem Tax Impact Fees VMT fees State Lottery Parking Meters Licenses, Permits or Fees **Fines Board Funding Obligations** Sales Tax Traffic Camera Fees Public Space Revenue Master equipment lea Mineral Fees sale of excess land petroleum Products tax Excise Tax (local) Vehicle Inspection Fees Congestion Pricing Sales Taxes (Gas) Container Fee Oil Company Taxes Motor Vehicle Sales T Fares

# States are Seeking Transportation Funding and Finance

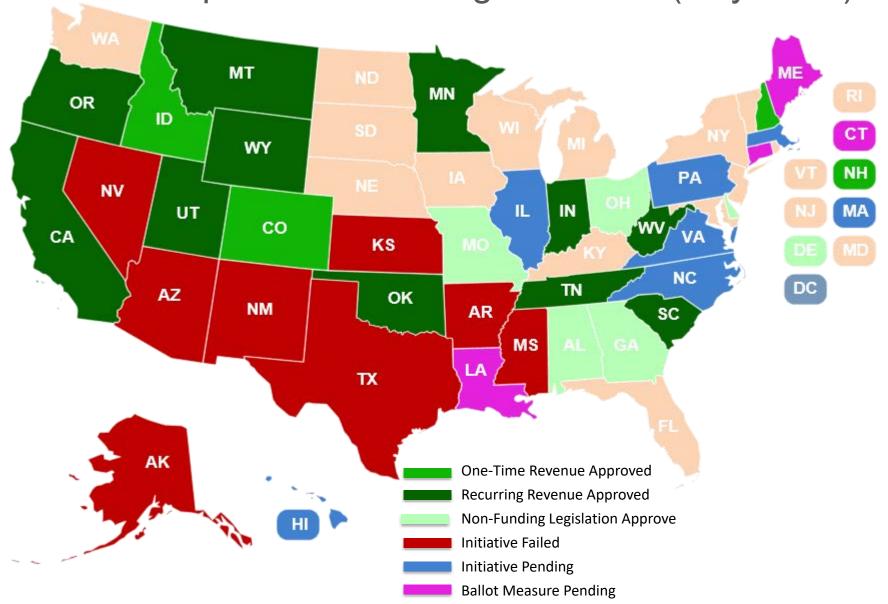
Traditional Funding Options	Less Traditional Options			
<ul><li>Gas taxes</li><li>Other taxes on motor fuels</li><li>Motor vehicle fees</li><li>Tolls</li></ul>	<ul><li>Distance-based fee</li><li>Taxes on alternative fuels</li></ul>			
Finance Solutions that borrow against or otherwise leverage revenues				
<ul><li>Bonds</li><li>Federal credit assistance</li></ul>	<ul><li>State infrastructure banks</li><li>Public-private partnerships</li></ul>			

12

## 2014 – 16 State Transportation Funding Initiatives



# State Transportation Funding Initiatives (July 2017)

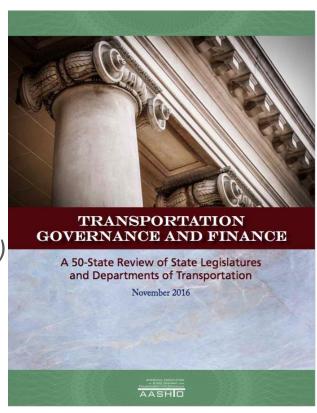


## Transportation Revenues Not Collected in NC

- **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

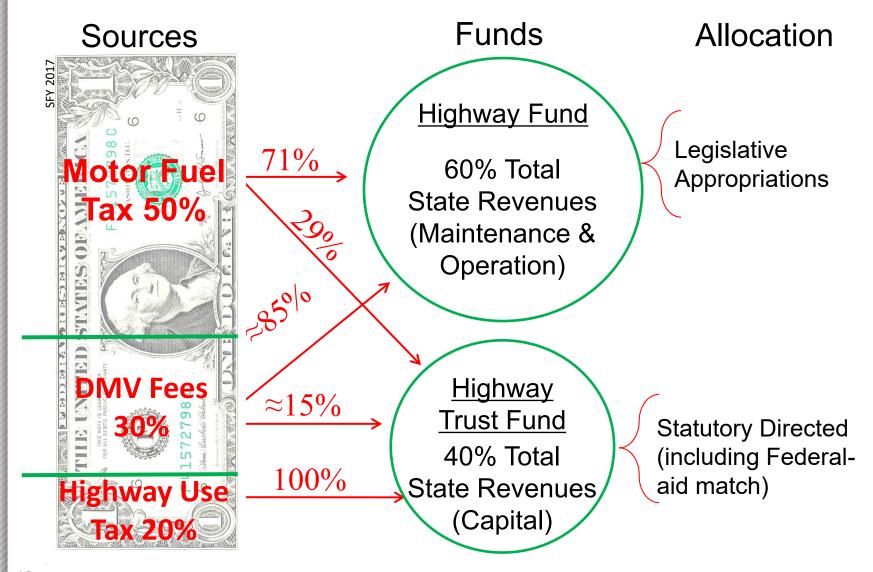
Revenue Option	ption States Where Revenue Option Collected (if applicable)		
General Fund	Alaska, Arizona, Arkansas, Colorado, Georgia, Hawaii, Idaho, Indiana, Massachusetts, Michigan, Missouri, New York, North Dakota, Oregon, Tennessee, Wisconsin, Wyoming, DC	Varies	
Rental Auto sales tax  Alaska, Arizona, 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 <b>≈</b> \$7,000	
Property Leases or Sales	Alaska, California, Colorado, Delaware, Indiana, Oregon, Rhode Island, Washington		
Vehicle Property Tax		1¢/100 Value ≈\$8m*	
17	*Revenue Collect	ion in Place	

17

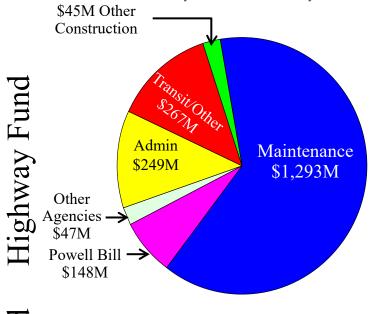
# Transportation Revenue Trivia

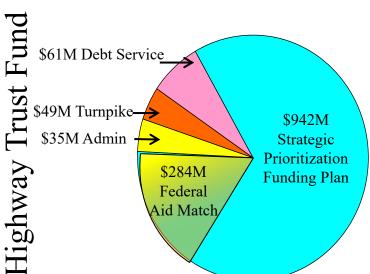
Existing Revenue Sources	Current Rate	Rate Change	Annual Revenue Generation (\$M)	Estimated Annual Cost to Average User
Gasoline Motor Fuel Tax	34.3 cpg	1 cent	45.0	7.50
Diesel Motor Fuel Tax	34.3 cpg	1 cent	10.0	100.00
Driver License	\$5.00/yr	\$1.00/yr	7.0	1.00
License Plate	\$36.00/yr	\$1.00/yr	7.0	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	**

### Sources, Funds, Allocation and Distribution



# Sources, Funds, Allocation & Distribution (Cont.)





#### 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

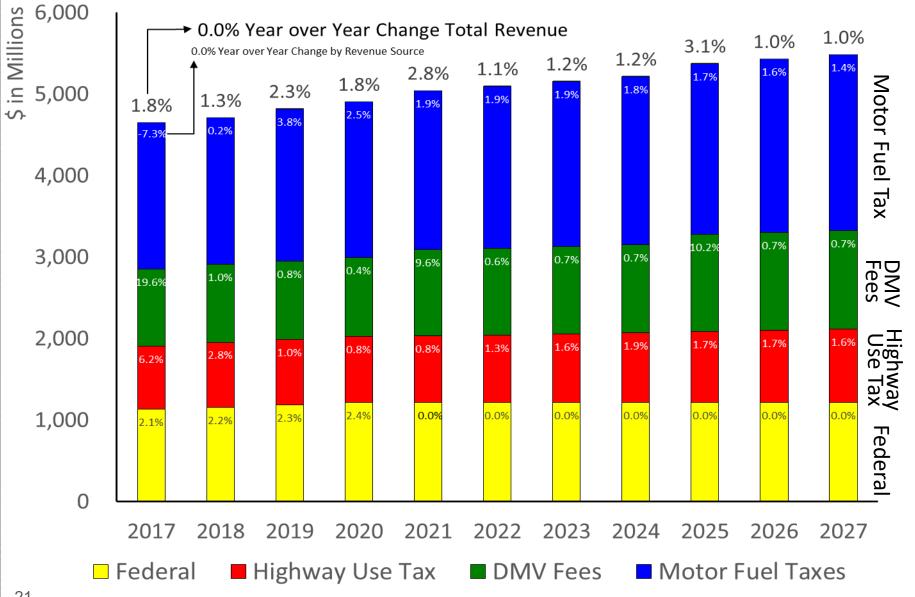
#### Strategic Transportation Initiative

•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

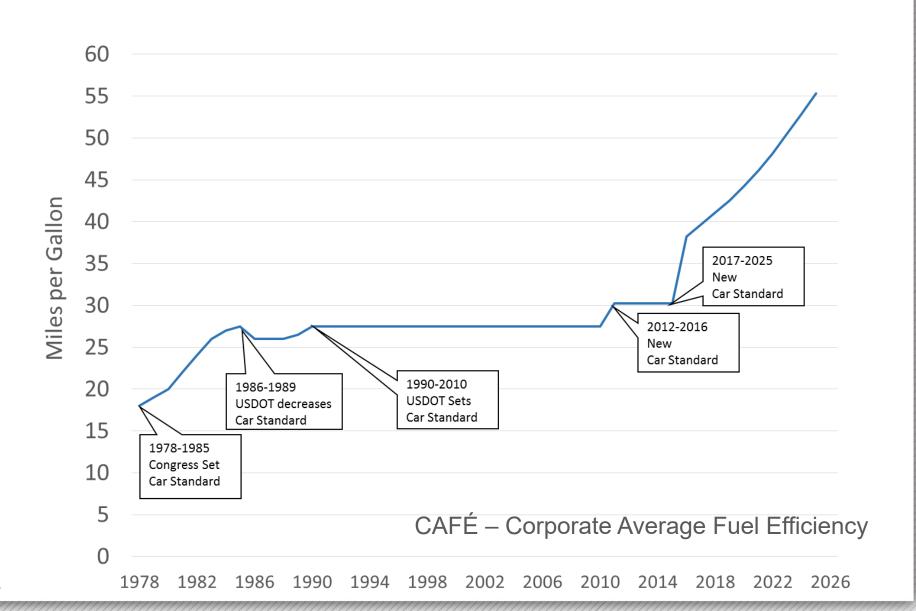
## FAST Act – Funding Alternatives Program

FFY 2016 Selections (\$14.3 million)

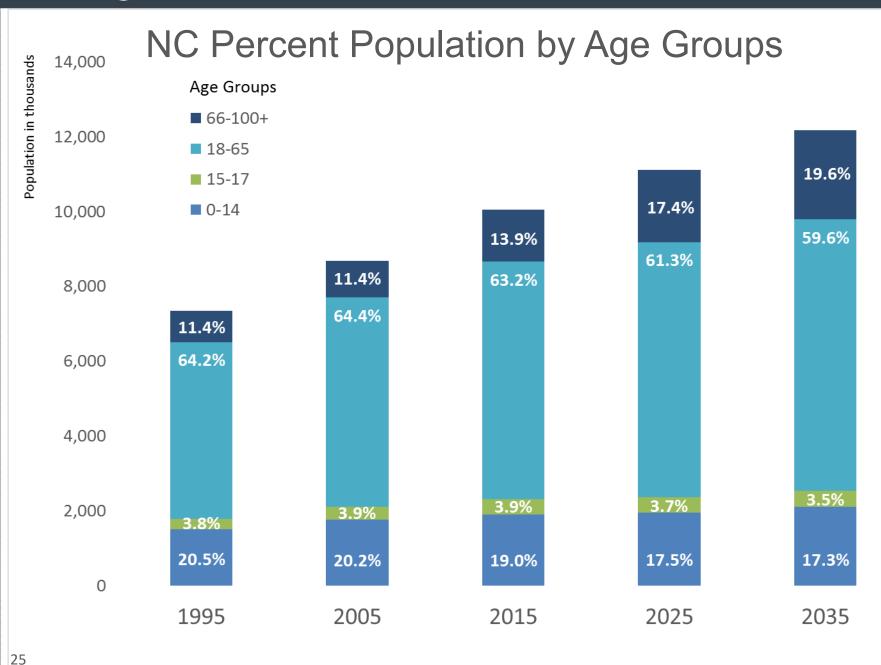
State	Project	Funding (\$ in thousands)
California	Pay at the Pump	750
Delaware	On Board Mileage Counter	1,490
Hawaii	Inspection Station Odometer Reading	3,998
Minnesota	Collection by Mobility as a Service Provider	300
Missouri	Registration Fee Based on Estimated Miles/Gallon	250
Oregon	Improvements 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



#### ncdot.gov



# 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%

#### ncdot.gov

# Projection – Vehicle Ownership Articles

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

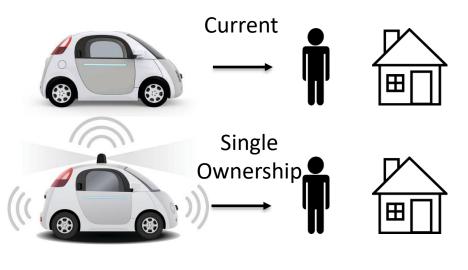
## Projection – Autonomous/Vehicle Ownership

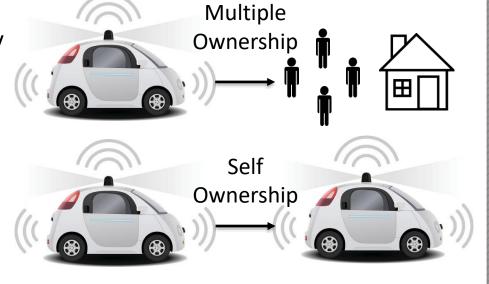
<u>The Car</u> - will grow smarter and more efficient, with high-efficient engines, lighter materials and autonomous driving vehicles

<u>The Industry</u> – will evolve with new competition from tech companies, and suppliers capable of producing hightech parts at low prices

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

<u>Transportation Funding Model</u> – 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





















# Transportation Engineering Associates (TEA) Program

Chandra Cross, TEA Program Manager

September 6, 2017

# **Program Summary**

- The Transportation Engineering Associates (TEA) Program was established in 1963, and budgeted through the Highway Trust Fund as a means of assuring that NCDOT would always have a reservoir of professionally trained engineers.
- The Program targets recent college graduates (Civil Engineers)
  who have a thorough knowledge of the principles and practices
  of civil engineering, but little or no practical experience at
  applying those concepts.

# Program Vision and Goals

The TEA program centers on developing competitive leaders with the skills, training and experience necessary to perform in a variety of areas, rather than focusing on one specific function. It has three major goals:

- Orient the newly graduated engineer on the major organizational functions of the various highway units, branches, and divisions.
- ➤ Provide a career development plan and training program that give the associate a broad background and practical application of highway engineering.
- Provide NCDOT with a reservoir of professionally trained and experienced engineers who can assume management responsibilities with confidence.

## The TEA training program provides:

- An Associate the opportunity to experience a variety of work environments, which would be difficult to obtain otherwise.
  - Field experience Construction, Maintenance, Planning, Transportation Mobility and Safety, Location & Surveys, Aviation, Roadway Design, Hydraulics, Materials & Tests, Geotechnical, Roadside Environmental, Structures; along with other units over an 18-24 month period.
- On-the-job training that is combined with classroom training under the supervision of engineering professionals.

- Associates are full-time permanent employee with full benefits.
- Associates are given salary adjustments every 3 months based on performance evaluations. The adjustments are allocated in increments based on trainee rates established by the Office of State Human Resources (OSHR).

Hiring Rate	3 Months	6 Months	9 Months	12 Months		18 Months Completion
\$48,208	\$49,378	\$50,578	\$51,807	\$52,928	\$54,215	\$55,534

- **Training Phase One** During phase one, Associates spend a total of nine months in one of the 14 highway divisions in Construction and Maintenance.
- **Training Phase Two** During phase two, Associates spend about nine months in central headquarters in Raleigh, experiencing work in design, traffic, roadway, hydraulics, etc.
- **Duration of Assignments** Associates spends anywhere from 2 to 18 weeks on an assignment.
- **Assignment Determination** Training schedules are determined by Associates preferences, combined with the personnel needs of the department.
- The normal period of training is 18 months, however the duration is not limited to this timeframe.

- Associates will be provided the opportunity to take FE & PE review courses through the Institute for Transportation Research and Education (ITRE) at NC State University sponsored by the Department.
- Associates are provided micro-station as well as other training courses.
- Evaluation forms are given to the supervisor and associates to complete at the end of each rotation.

# TEA's at Work









# TEA Office Contacts

Chandra Cross
TEA Program Manager

Office: 919.707.6686

Fax: 919.250.7887

crcross@ncdot.gov

TEA Program Assistant - Vacant



# HIGHWAYS COMMITTEE MEETING MINUTES

DATE: <u>6-28-2017</u> TIME: <u>2:10 PM – 3:30 PM</u> LOCATION: <u>Room 150</u>

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

#### AGENDA TOPICS

APPROVAL OF MAY MINUTES	
DISCUSSION SUMMARY	Motion to approve made by Board Member Debman, seconded by Board Member Tulloss.
ACTIONS TAKEN	Motion to approve minutes as written passed unanimously.

2. PROJECT SPOTLIGHT - MR. JOHN ROUSE, DIVISION ENGINEER, DIVISION 2			
DISCUSSION SUMMARY	Mr. John Rouse, Division Engineer for Division 2, provided a presentation on the Gallant's Channel Bridge Replacement Project along US 70 in Carteret County. The purposes of the project are to increase the traffic capacity of US 70 and eliminate delays to both vehicular and boating traffic due to drawbridge openings. It was let to contract in January 2014. Two lanes of traffic will be placed on the new bridge this fall. The overall completion of the project, including traffic being placed in the final pattern and removal of the existing drawbridge, is estimated by the end of 2018. This project replaces the Grayden Paul Drawbridge which was completed in 1957.		
ACTIONS TAKEN	N/A		
3. NCDOT SAFETY AND RISK MANAGEMENT – Mr. ROB BARFIELD, DIRECTOR OF <b>NCDOT'</b> S SAFETY AND RISK MANAGEMENT UNIT			
DISCUSSION SUMMARY	The Director of NCDOT's Safety and Risk Management Unit, Mr. Rob Barfield, discussed the Department's safety initiatives. Mr. Barfield's presentation coincided with the Governor's proclamation of June as "Safety Month." The initiatives presented include: the Accident/Incident 7-line reporting tool, the Any-Risk Program pilot, 4-Day After Incident Reporting, and the regional Supervisor Safety Academy. Divisions 9 and 13 are evaluating new technology to alert workers within work zones of vehicular intrusions and equipment/truck backing issues. Divisions 5 and 8 are currently piloting the use of Vivid Learning Systems' online training. The topics available for the on-line training system include Occupational Safety and Health, Personal Protective Equipment and Environmental Management.		



# HIGHWAYS COMMITTEE MEETING MINUTES

ACTIONS TAKEN	N/A		
4. AUTOMATED VEHICLE PROVING GROUNDS - MR. BEAU MEMORY, EXECUTIVE DIRECTOR, NORTH CAROLINA TURNPIKE AUTHORITY			
DISCUSSION SUMMARY	Mr. Beau Memory, Executive Director of the North Carolina Turnpike Authority, presented information about North Carolina's selection as an automated vehicl proving ground pilot location. North Carolina's Triangle Expressway was one of ten sites chosen nationally by the U. S. Department of Transportation.		
ACTIONS TAKEN	N/A		



### HIGHWAYS COMMITTEE AGENDA

### BOARD OF TRANSPORTATION SEPTEMBER 6, 2017

TIME: 2:20 PM - 3:40 PM

LOCATION: 150

TOPIC	Presenter	TIME
Call to Order Roll Call Declaration of Quorum Approval of June 28, 2017 Meeting Minutes	Cullie Tarleton, Chair	2:20 pm
Severe Weather Preparedness	Emily McGraw, P.E., State Maintenance Operations Engineer	2:25 pm
NCDOT Truck Parking Study	Charles Edwards, Director Strategic Planning/ Logistics	2:45 pm
Superstreets in North Carolina	Jim Dunlop, P.E., Congestion Management Engineer	3:05 pm
Other Discussion	Cullie Tarleton, Chair	3:25 pm
Adjourn	All	3:40 pm





















## North Carolina Truck Parking Study

Charles HW Edwards, Director – Logistics & Strategic Planning

September 6, 2017

## Background and Study

- Requested by NC Legislature
- Process
  - Outreach
  - Existing Facility/Demand Analysis
  - Recommendations
- 3 month study completed December 2016
- Submitted to Legislature February 2017

## Trucker's Top Issues

- 1. Electronic Logging Device Mandate
- 2. Hours-of-Service
- 3. Truck Parking
- 4. Economic Impact of Truck Regulations
- 5. Economy

Source: ATRI Survey – 700 drivers

## Truck Parking Supply

Facility Type	Number of Truck Parking Facilities	k Parking Truck Parking	
Private	73	4,064	85%
Public	51	719	15%
Wal-Mart	25	38*	<1%
Weigh Station	18	27*	<1%
Total	167	4,783	

Source: Aerial Photography.

\* Note: It is estimated that there are between 1 and 2 truck parking spaces at each Wal-Mart and Weigh Station facility.

## Truck Parking Demand - Example

Top Ten Parking Location Average Stop Time and Relative Volume, Oct. 2015								
Location Name	Average Time Stopped (hours)	Stop Frequency (per 1,000 trucks)	Location - Route	No. of Spaces	Route Avg. Daily Truck Volumes	Potential Daily Truck Space Demand	No. of Equiv. Daily Spaces	Est. Surplus/ Deficit
Pilot	13.3	57	Burlington - I40/85	140				
Petro Mebane	13.7	57	Mebane - 140/85	285	13,000	732	854	121
Travel Centers of America	14.6	55	Whitsett - 140/85	186	ŕ	732	654	121
Petro Kenly	13.9	51	Kenly - 195	250				
Flying J	14.4	34	Kenly - 195	145	8,750	335	849	513
Pilot	13.7	30	Benson - 195	300				
Pilot	12.4	50	Mt. Airy - 177	150	8,750	438	290	(147)
Travel Centers of America	14.1	44	Mocksville - 140	134	6,250	275	228	(47)
WilcoHess	13.9	37	States ville - 177	84	8,750	324	145	(179)
Candler Travel Center	12.6	29	Candler - I40	106	6,250	181	202	21
Source: ATRI (stopped hours + frequency) / NCDOT - truck volumes								

## Truck Parking Utilization



Truck Parking Utilization

- Full Truck Parking Space
- Available Truck Parking Space
- Truck Parking Space without Utilization Information

Corridors with Adjacent Truck Parking Space

5 abandoned rest stops I-40 (2) and I-85 (3)



# Truck Parking Demand

Time of Day	Response
5:00 a.m. – 9:00 a.m.	0.0%
9:00 a.m. – Noon	0.5%
Noon – 4:00 p.m.	0.5%
4:00 p.m. – 7:00 p.m.	15.5%
7:00 p.m. – Midnight	64.8%
Midnight – 5:00 a.m.	18.9%

Source: ATRI Survey – 700 drivers

# Private Parking Utilization

- 21 "Full most nights"
- 5 "Full on weekends"
- 11 "Full Mon-Thu"

Studied 36 locations

# Public Parking Utilization

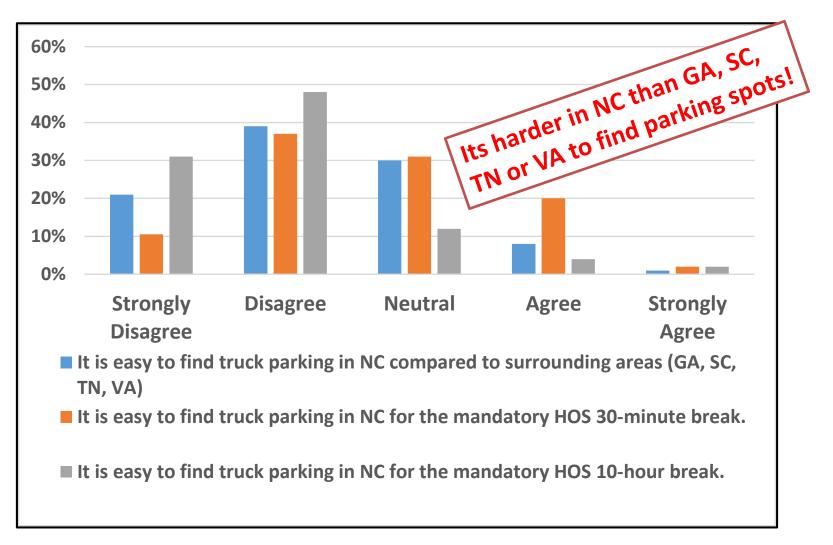
40 facilities: "100% full"

7 facilities: "50-100% full"

2 facilities: "0-50% full"

2015 Survey for Jason's Law

# Finding Truck Parking



## Trucker Survey Findings

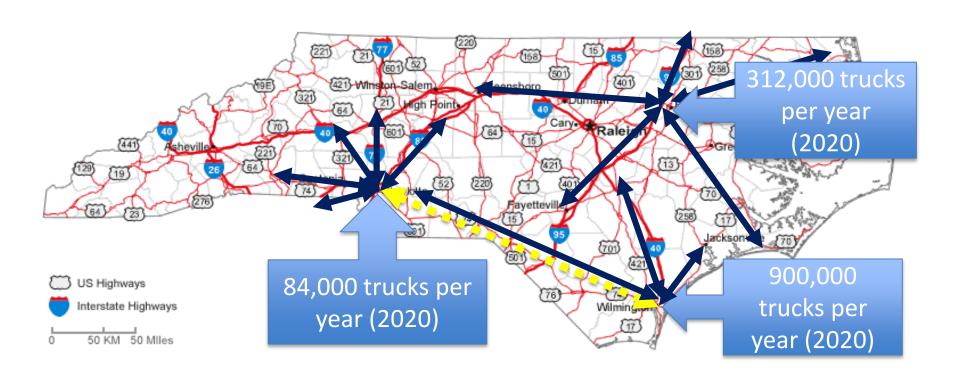
- Lost Productivity 87% of drivers spent >30 minutes to find truck parking.
- Ramp or Shoulder Parking Shoulder or ramp parking = 10% of all NC stops.
- Truck Parking Demand Need more in: Asheville, Charlotte, Greensboro, Raleigh, Statesville.
- Shipper/Receiver Practices 75% affected by >1 hour loading/ unloading delays. [WalMart = 95% OTIF]
- Other Parking Issues Public rest area time limits affected
   57% of respondents.

## Opportunities and Recommendations

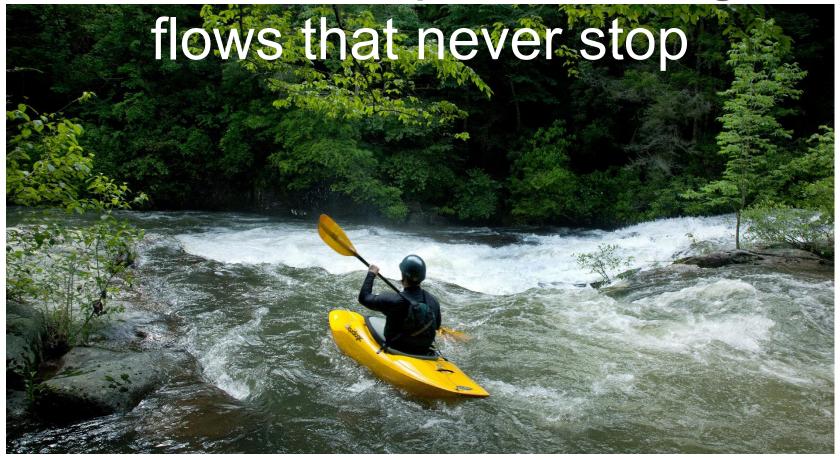
- Partner with Truck Travel Centers to expand facilities
- Trial truck parking at selected weigh stations
- Employ weigh station technology to communicate truck parking
- Multi-state partnerships to promoting truck parking detection systems
  - Numerous pilot studies on-going
  - Technology already exists
  - Can include predictive analysis
- Coordinate with MPOs to develop mitigation strategies for public opposition to parking

## **Growing Activity**

Port of Wilmington – Queen City Express - CCX



# NCDOT - We plan for freight





















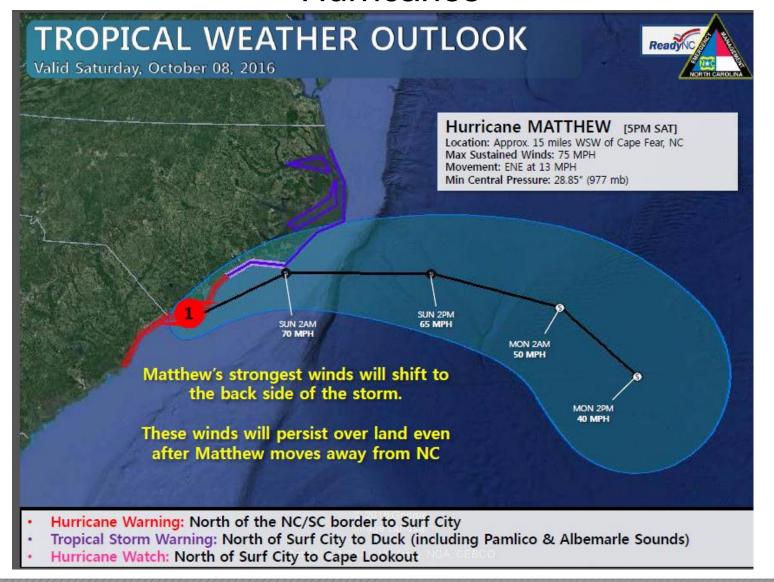


## Severe Weather Preparedness

Emily McGraw, PE

September 6, 2017 – BOT Highway Committee

# Types of Severe Weather in North Carolina Hurricanes



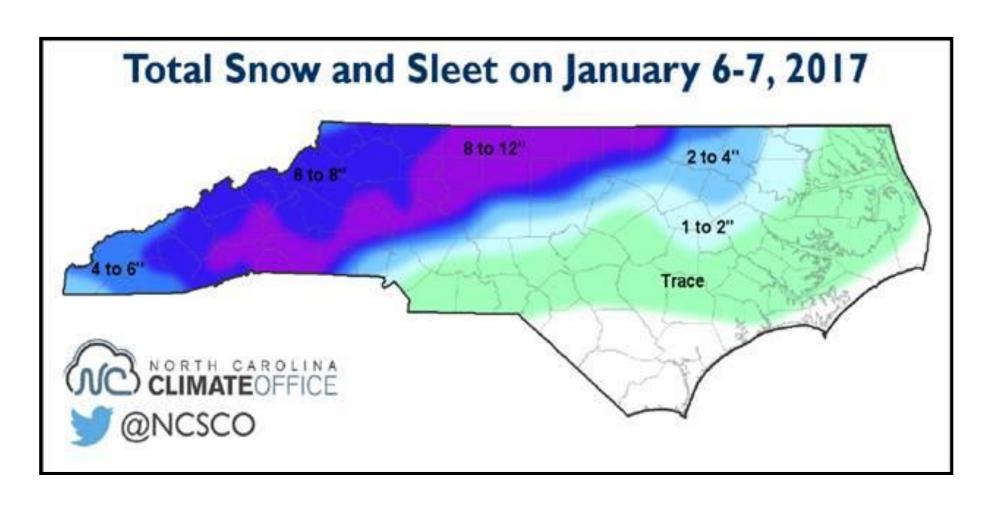
## ESTIMATED RAINFALL

LAST 24 HOURS - AS OF 6PM





# Types of Severe Weather in North Carolina Snow and Ice



# Types of Severe Weather in North Carolina Tornadoes



## Types of Severe Weather in North Carolina Heavy Rains – Mudslides & Rockslides

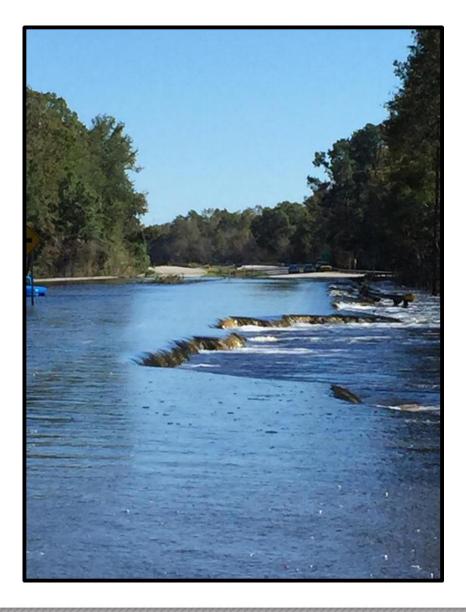




## Types of Declared Events

- Declared Events Large Disasters with Federal Reimbursements
  - FEMA Public Assistance Program
  - FHWA Emergency Relief Program
- Non-Declared Events Smaller & Localized
  - State Funded

## NCDOT Disaster Preparedness



- Training
- Communication
- Activation

### Training

- Disaster Refreshers –
   Fiscal Recovery Training
- FEMA & FHWA
   Documentation Training
- Annual Snow and Ice Training
- Intra-agency Exercises
- "Dry Run"
- Tabletop Exercises
- Lessons Learned

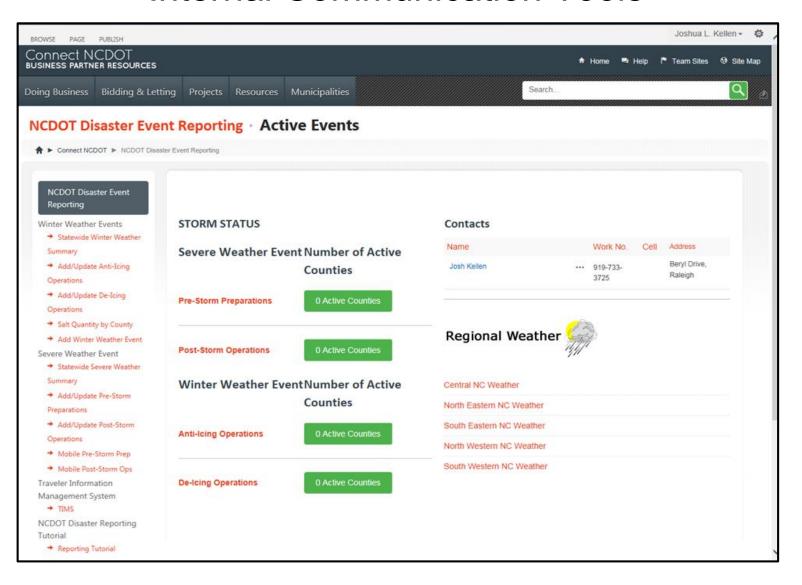


### Communication

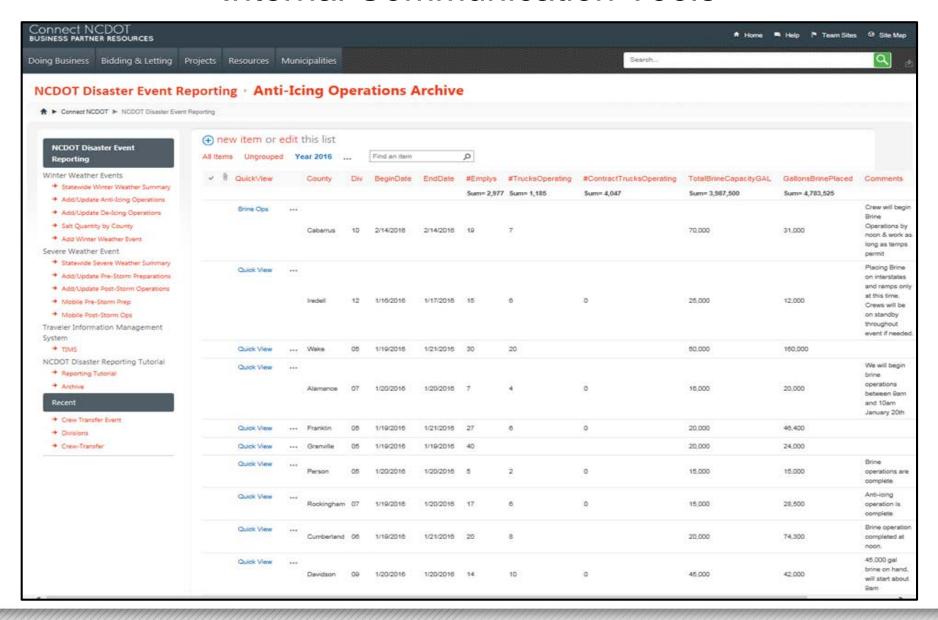
- Internal Cross Division Communication
- Communication with other State Agencies, Local Government, National Weather Service
- Activation of State Emergency Response Team (SERT)



### **Internal Communication Tools**



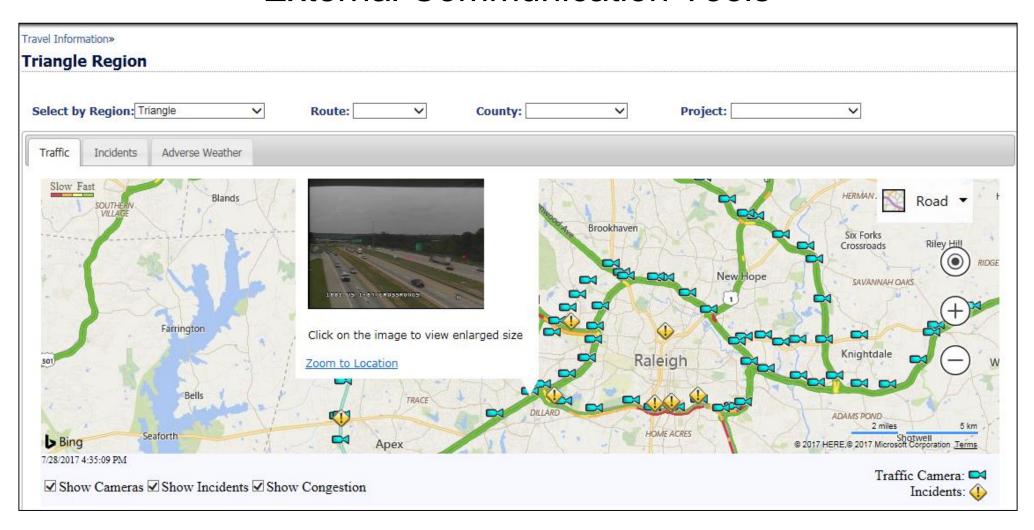
### **Internal Communication Tools**



### **External Communication Tools**



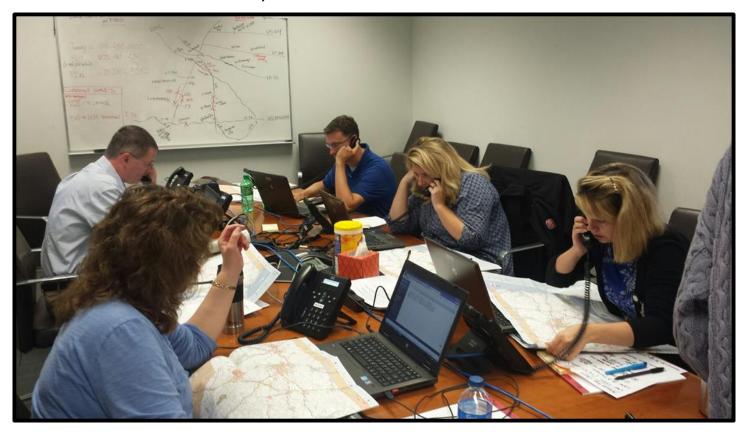
### **External Communication Tools**

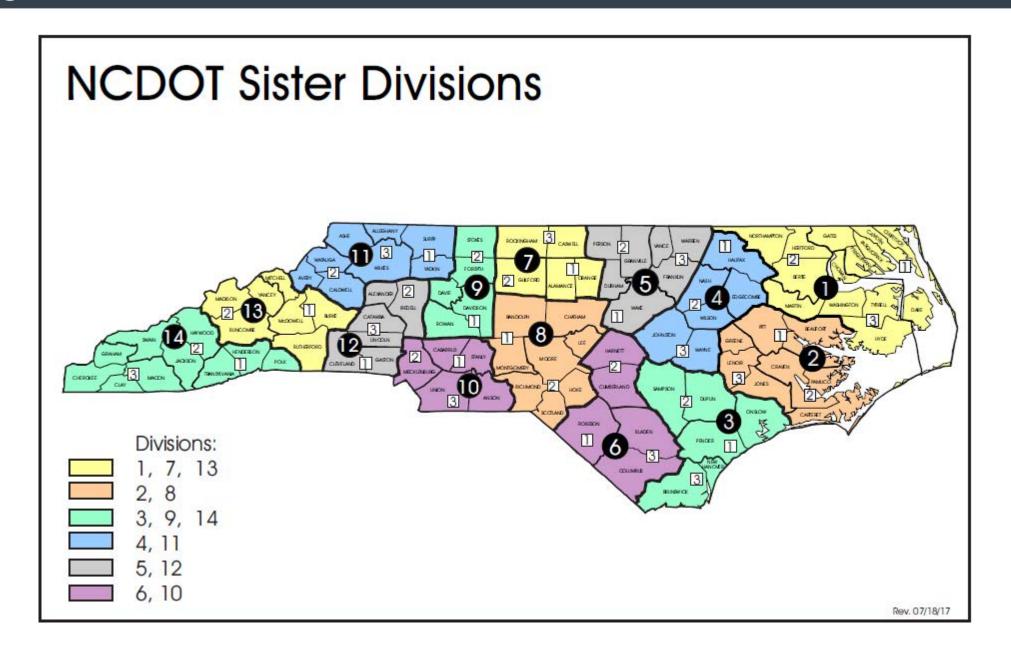


### External Communication – 511 & Call Center

#### **Hurricane Matthew**

- 511 Over 120,000 customer service inquiries
- Call Center Over 5,000 calls received





## Activation - NCDOT Preparations

- Frequent Communication with Field Staff
- Field prepared their equipment and personnel
- Reviewed Emergency Operations Procedures



## Activation - During a Storm

Communication with other State Agencies and Local Government

Activation of State Emergency Response Team (SERT)



## Activation - Response



- DivisionResources
- Sister Division
   Resources
- ContractResources
- PEF Assistance

### Activation – Shifting Resources



## Activation - Recovery







### Questions?





#### **NORTH CAROLINA**

Department of Transportation



















#### Superstreets in North Carolina

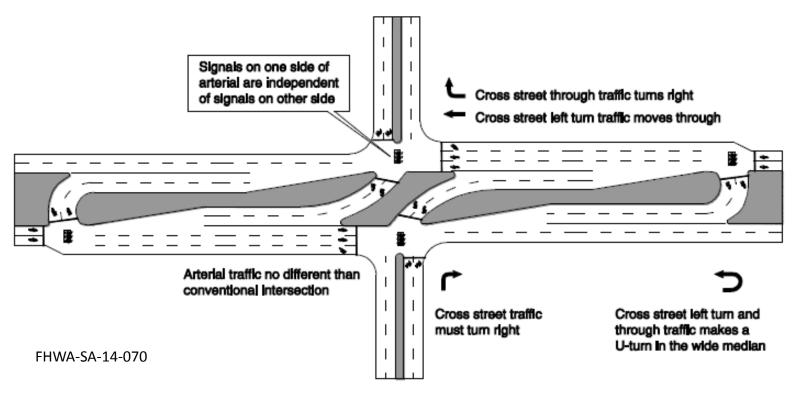
Board of Transportation Highways Committee

James H. Dunlop, P.E.
Congestion Management Engineer
Transportation Mobility and Safety Division
September 6, 2017

#### **The Superstreet**

A type of intersection in which minor cross-street traffic is restricted from going straight through or left at a divided highway intersection. \*

Minor cross street traffic must turn right, but can then access a U-turn to proceed in the desired direction.



FHWA uses the term RCUT (Restricted Crossing U-Turn)
Some states use the term "J-Turn" or "Reduced Conflict Intersection"
For signalized corridors, some use the term "Synchronized Streets"

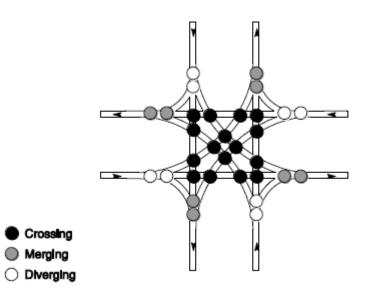
<sup>\*</sup>Other configurations possible based on site specific conditions.

- SAFETY!!!!
  - 15 to 46 percent total crash reduction
  - 22 to 63 percent injury and fatal crash reduction
- Reduce delay
- Great progression through signals
- Speed control

And superior pedestrian service

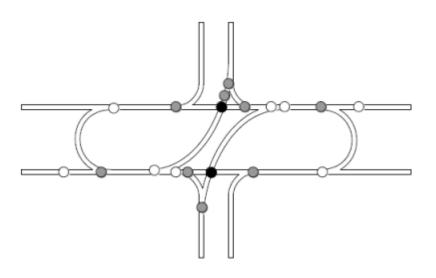
#### **Safety - Vehicular Conflict Points**





**Conflict Points = 32** 

#### **Superstreet Intersection**



**Conflict Points = 14** 

#### **Safety – Reduction in Crashes**

#### Safety impact by collision type for unsignalized superstreets

Collision Type	Crash Reduction %
Total	-46
Fatal and injury	-63
Angle and right turns	-75
Rear ends	-1
Sideswipes	-13
Left turns	-59
Other	-15

#### Safety Study of Signalized Superstreets

FHWA sponsored study, to be published in 2017 11 treatment sites, good comparison sites Crash Modification Factors (CMF)

Sites	CMF All Crashes	CMF Injury Crashes
All AL	0.44	0.41
All OH	0.98	1.06
All TX	0.88	0.88
AL, NC, and OH	0.71	0.63
All	0.85 (SD = 0.16)	0.78 (SD = 0.20)

#### Safety - US 17 Superstreet - Leland

Comparison of Signalized Superstreet and Traditional	US 64 Cary Traditional	US 17 Leland Superstreet	Percent Difference
Intersection Corridors	7/1/2006-0	6/30/2009	+/-
Total Crash Rate	308.5	180.0	-41.7%
Total Crashes/Mile	125.1	84.8	-32.2%
Intersection Crashes	177.0	95.0	-46.3%
Total Crash Severity Index	4.6	5.0	8.2%
Fatal Injury Crashes/Mile	0.9	0.8	-11.1%
Class A Injury Crashes/Mile	1.8	0.8	-55.6%
Class B Injury Crashes/Mile	6.0	9.8	63.3%
Class C Injury Crashes/Mile	27.2	19.6	-27.9%
PDO Crashes/Mile	89.1	53.8	-39.6%
Frontal Impact Crashes/Mile	25.4	25.3	-0.4%
Rear End Crashes/Mile	80.3	40.0	-50.2%
AADT	37,000	43,000	16.2%
Intersection Density (/Mile)	3.7	3.3	n/a
Length (Miles)	2.2	1.2	n/a

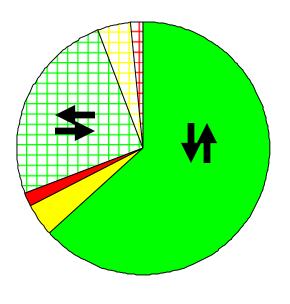
#### **Operations – Less Travel Time**

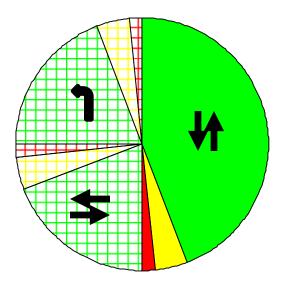
- Recapturing roadway capacity lost by installation of multi-phase signals
- Reduced "wait time" or delay
- Improved Signal Coordination (Synchronized Street Concept)

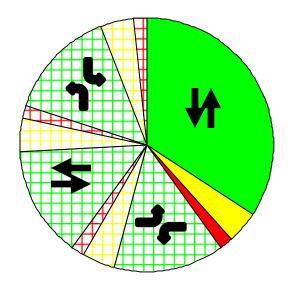
Signal Timing - Two Phase

**Signal Timing - Three Phase** 

**Signal Timing - Eight Phase** 

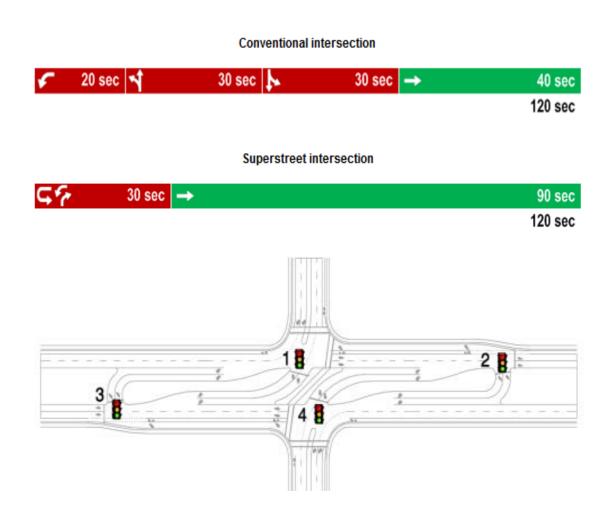




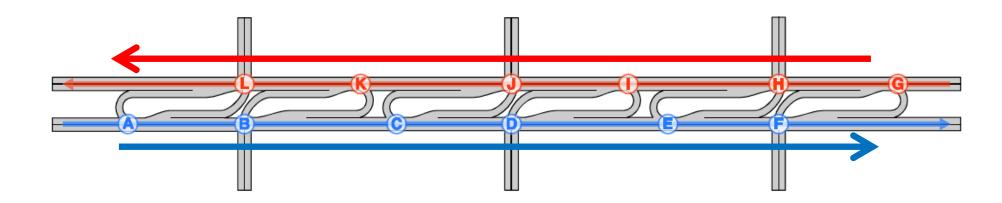


#### **Signalized Superstreet Operation**

- Two-phase signals allow more green time for the major street through movements
- Shorter cycle lengths
- Reduced delay for most vehicles and for pedestrians
- Can have different cycle lengths for each direction on the major street
- High capacity side street volume can exceed 20,000 AADT



#### **Superstreet Signal Progression**



- Signals only affect one direction of main street travel
- One-Way Street "Perfect" progression in both directions
- Maximized efficiency
- Effective at any speed or any signal spacing
- Can control speeds using progression the progression speed can be adjusted by location, direction, time, day – drivers will adjust quickly
- No special signal equipment is needed

#### ncdot.gov Superstreet - US 321 Hickory-Lenoir Corridor Operation

U-4700 - 2035 Full Network Delay Analysis (Traditional Build vs. Three-lane Superstreet Build)						
		AM		PM		
	Traditional	Superstreet	% Change	Traditional	Superstreet	% Change
Vehicles Exited (veh / hr)	31,760	35,618	12.15%	31,358	34,601	10.34%
Vehicles Entered (veh / hr)	33,730	37,283	10.53%	34,039	36,494	7.21%
Travel Distance (mi)	76,355	86,120	12.79%	73,721	82,465	11.86%
Travel Time (hr)	10,121	6,628	-34.52%	10,245	7,051	-31.17%
Total Delay (hr)	8,488	4,755	-43.98%	8,671	5,250	-39.45%
Total Stops (number)	111,713	122,511	9.67%	120,421	119,534	-0.74%
Fuel Usage (gal)	44,308	39,617	-10.59%	44,001	39,781	-9.59%
Per Veh. Distance (mi)	2.40	2.42	0.57%	2.35	2.38	1.38%
Per Veh. Time (hr)	0.32	0.19	-41.61%	0.33	0.20	-37.62%
Per Veh. Delay (hr)	0.27	0.13	-50.05%	0.28	0.15	-45.13%
Per Veh. Stops (number)	3.52	3.44	-2.21%	3.84	3.45	-10.04%
Per Veh. Fuel (gal)	1.40	1.11	-20.27%	1.40	1.15	-18.06%

#### ncdot.gov Superstreet – US 17 in Leland (Brunswick County)



US 17 at Ploof Road/Old Waterford Way, Leland

#### **US 281 Superstreet (San Antonio TX)**



As traffic congestion on U.S. Highway 281 eases due to the completion of the superstreet project, construction of new commercial and retail developments along the far North Central San Antonio corridor is ramping up.

"We are close to 90 percent leased with no pad sites left," Elliott remarked. "We've had quite a bit of interest because of the market, which is in a high growth area. And a lot of our tenants say they feel like business has increased since the superstreet was finished."

#### **Pedestrian and Bicycle Access**

#### PEDESTRIAN AND BICYCLE ACCOMODATIONS ON SUPERSTREETS

by

Joseph E. Hummer, Ph.D., P.E., Professor and Chair Department of Civil and Environmental Engineering Wayne State University

Anne M. Holzem, P.E., Graduate Research Assistant Department of Civil, Construction, and Environmental Engineering North Carolina State University

And

Nagni M. Rouphail, Ph.D., Director, Christopher M. Cunningham, P.E., Program Manager and Sarah W. O'Brien, Program Manager Bastian J. Schroeder, Ph.D., P.E., Assistant Director Katy Salamati, Ph.D., Transportation Engineer Robert S. Foyle, P.E. former Associate Director

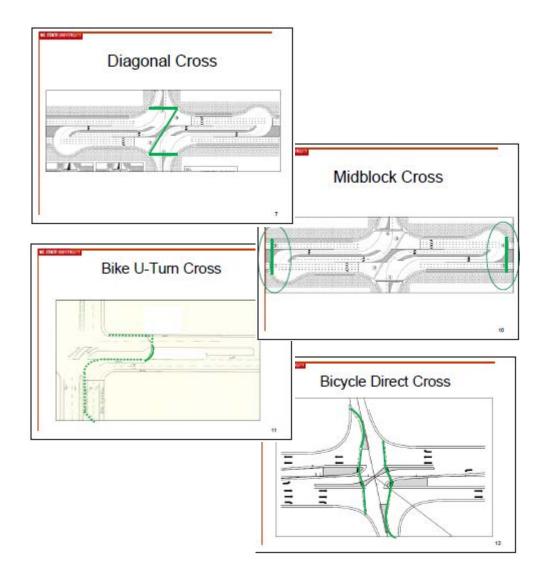
Institute for Transportation Research and Education North Carolina State University Raleigh, NC

For the

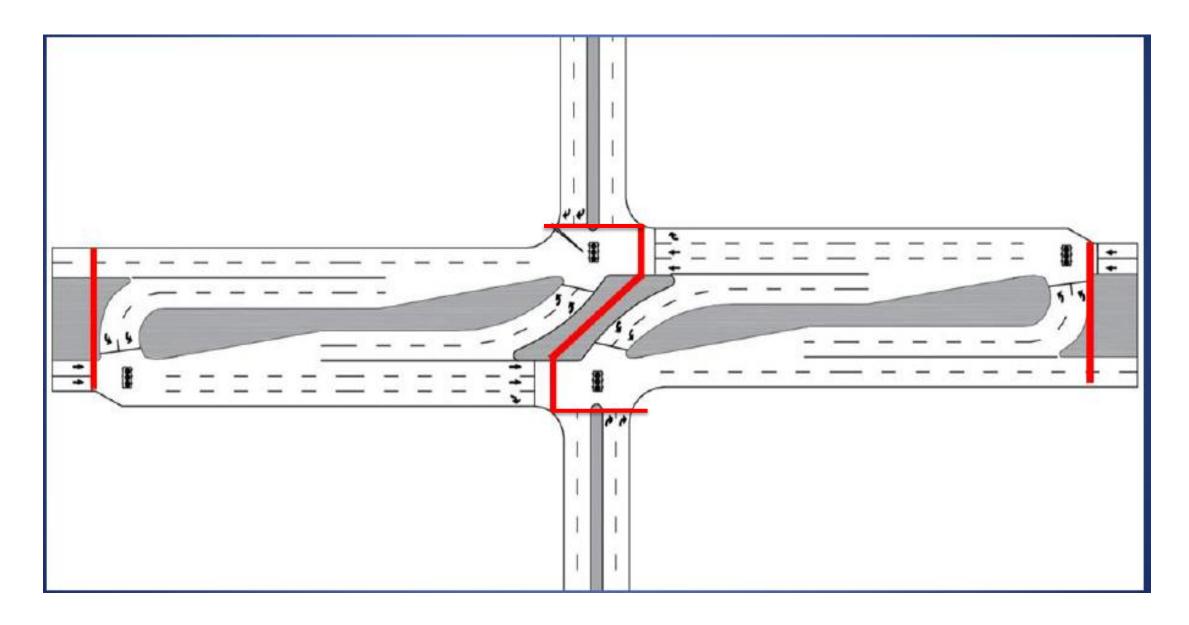
North Carolina Department of Transportation

Final Report Project: 2012 – 13

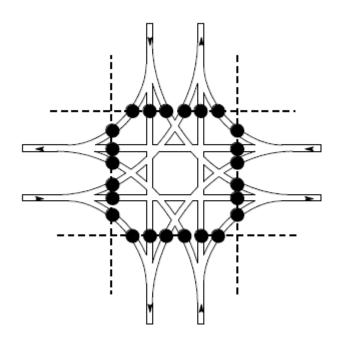
January, 2014



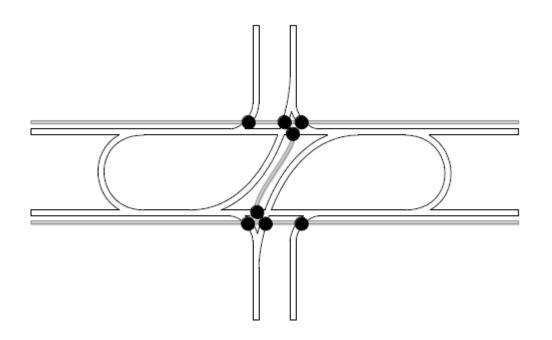
#### **Superstreet Pedestrian Movements**



#### **Pedestrian Conflict Points**



Conventional Intersection 24 Conflict Points

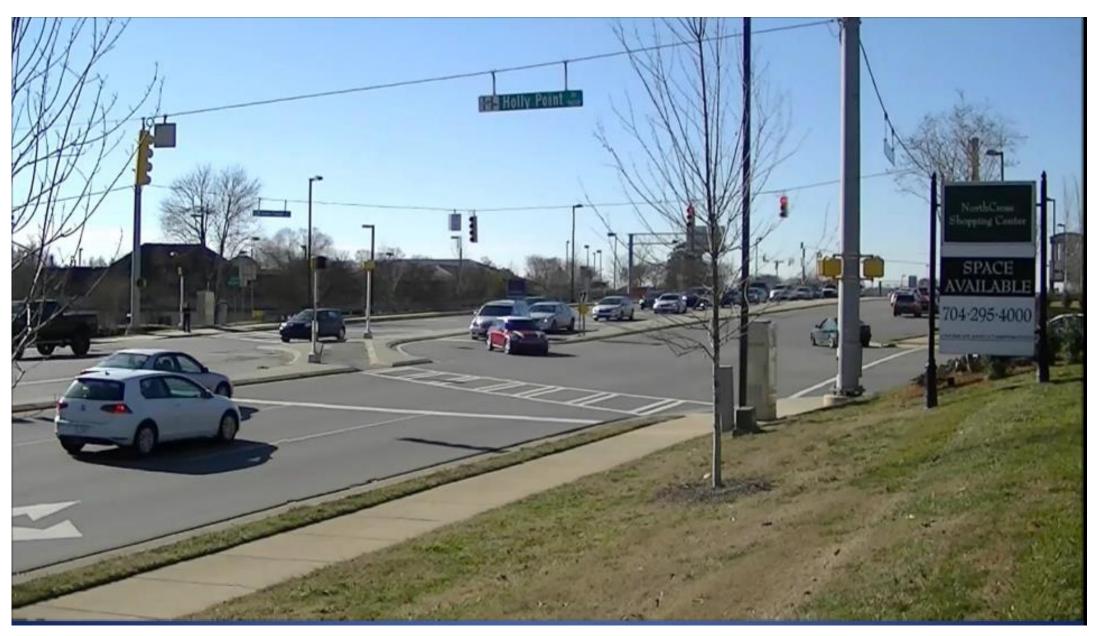


Superstreet Intersection 8 Conflict Points

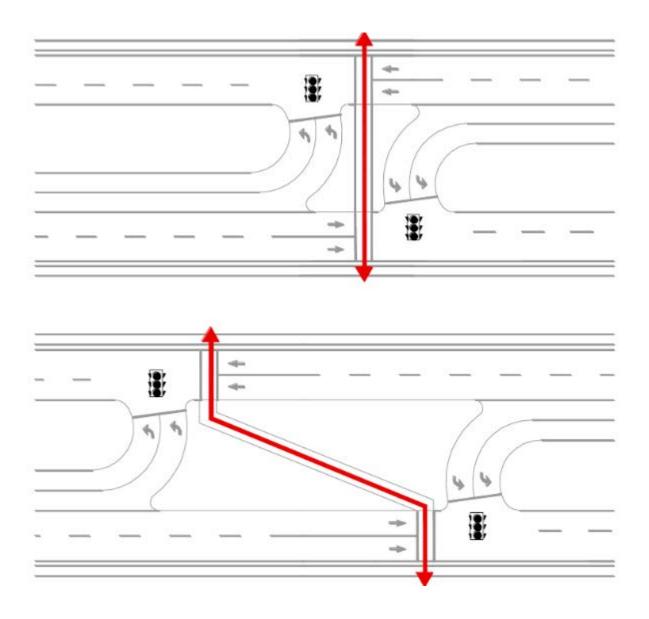
#### **Superstreet Ped Crossing in Center of Median**



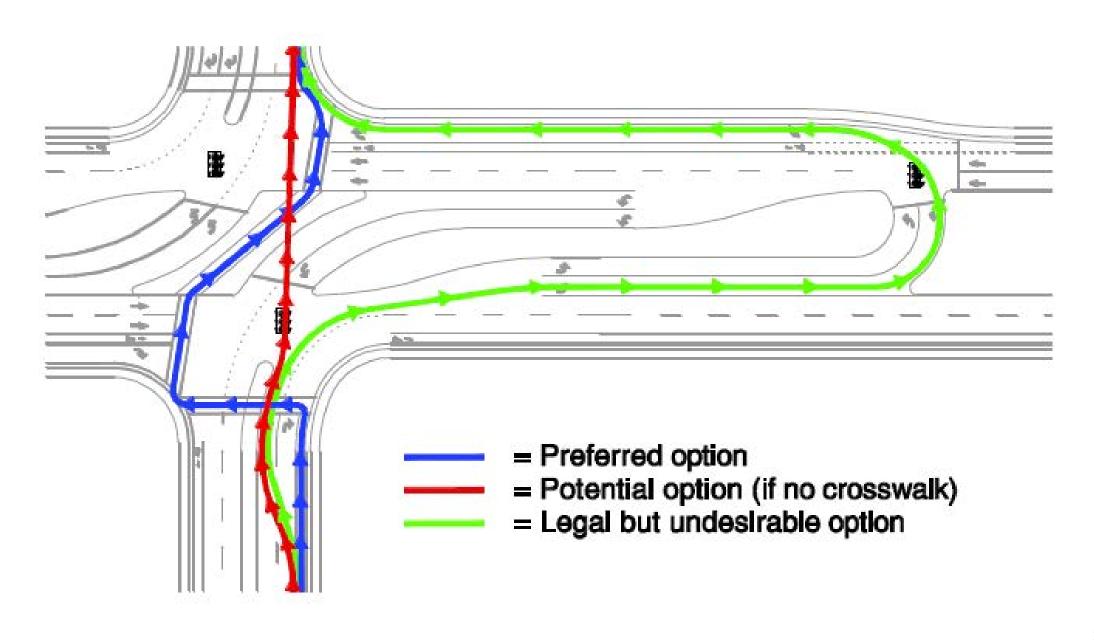
#### **Superstreet Ped Crossing – Street View**



#### **Pedestrian and Bicycle Crossing – Midblock Detail**



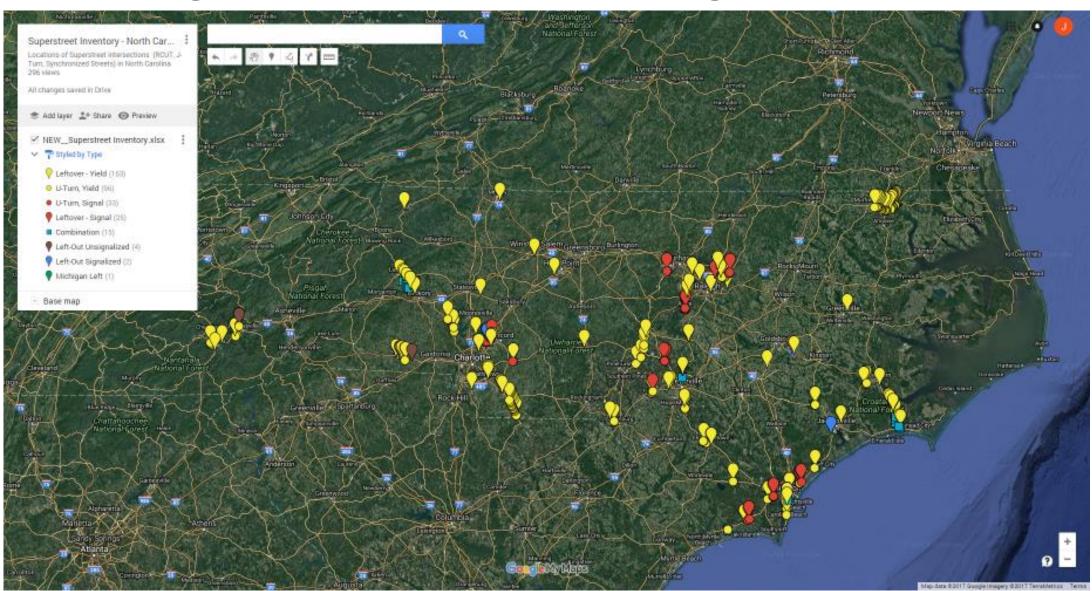
#### **Bicycle Minor Street Crossing Options**



## Why Choose a Superstreet?

Performance Goals	Traditional	Superstreet
Improves safety by reducing conflict points		$\checkmark$
Saves travel time		<b>✓</b>
Reduces congestion		<b>✓</b>
Reach businesses safely without delay		$\checkmark$
Accommodates growth		$\checkmark$
Safer for pedestrians and bicyclists		<b>✓</b>

## **Becoming the Default Arterial Design in North Carolina**





# MULTI-MODAL COMMITTEE MEETING MINUTES

MEETING CALLED BY	Vice Chair Tracy Dodson
BOARD ATTENDEES	Nina Szlosberg-Landis, Anthony Lathrop, Daniel McComas, Allen Moran, Valerie Jordan, Hugh Overholt

#### **AGENDA TOPICS**

1. MEETING CALL TO ORDER AND APPROVAL OF MAY 31 MINUTES - CHAIRWOMAN DODSON		
DISCUSSION SUMMARY	Vice Chair Dodson 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 May 31, 2017 Multi-Modal committee meeting minutes as distributed was made by Mr. Anthony Lathrop and seconded by Ms. Tracy Dodson. The committee approved unanimously.	

2. Funding Items (Aviation, PTD, Rail)		
DISCUSSION SUMMARY	Information was presented by Transit Directors for the Committee's approval.	
ACTIONS TAKEN	<ul> <li>Motion to approve Aviation Funding Item made by Tracy Dodson, and seconded by Anthony Lathrop</li> <li>Motion to approve PTD Funding Item made by Hugh Overholt and seconded by Daniel McComas.</li> <li>Motion to approve Rail Funding Item made by Hugh Overholt, and seconded by Daniel McComas.</li> </ul> All approved unanimously.	

3. Multi-Modal Updates – David Howard		
DISCUSSION SUMMARY	Chief Howard updated committee on new format of updates that includes a paper summary from each mode. Chief Howard referred the committee to these summaries.	
ACTIONS TAKEN	No action taken	

4. AVIATION PRESENTATION – BOBBY	4. AVIATION PRESENTATION – BOBBY WALSTON		
DISCUSSION SUMMARY	Bobby L. Walston gave a presentation of Aviation's current projects and proposed future projects and needs. There was in depth discussion on the future of Aviation including the impact of drone licensing in the state. Bobby Walston also updated group of upcoming drone workshops across the state.		
ACTIONS TAKEN	Mrs. Nina Szlosberg-Landis suggested a working session with stakeholder and others to see how to better promote drone usage. Chief Howard agreed to follow up on this action.		

5. COMMENTS AND WRAP-UP	
DISCUSSION SUMMARY	Ms. Tracy Dodson asked Chief Howard for an update on Real ID requirements Debbie Collins reported that the strategic plan meetng went well and PTD is working on partnerships. Training



# MULTI-MODAL COMMITTEE MEETING MINUTES

	was conducted with TPB Tuesday, June 20th to promote cross training efforts. Chief Howard suggested having one presentation per meeting instead of two with the remaining modes submitting their reports to the committee.
ACTIONS TAKEN	Change monthly committee meeting agenda to reflect one presentation each month. Debbie Collins, Public Transportation will present during the next committee meeting.

Adjourned: 3.32 pm



# MULTI-MODAL COMMITTEE COMMITTEE AGENDA

#### BOARD OF TRANSPORTATION September 6, 2017

TIME: 2:20 PM

LOCATION: EIC

Торіс	PRESENTER	Тіме
Call to Order Roll Call Declaration of Quorum Approval of June 28, 2017 Meeting Minutes	Chairman Perkins	2:20-2:25
Funding Items (Aviation, PTD, Rail)	Transit Directors	2:25-2:35
Multi-Modal Update	Chief David Howard	2:35-2:55
Public Transportation Update      Division Highlights     Future of Mode     Discussion	Debbie Collins	2:55-3:30
Adjourn	Chairman Perkins	3:30-3:40

Multi-Modal Committee September 6, 2017



#### **NORTH CAROLINA**

Department of Transportation



















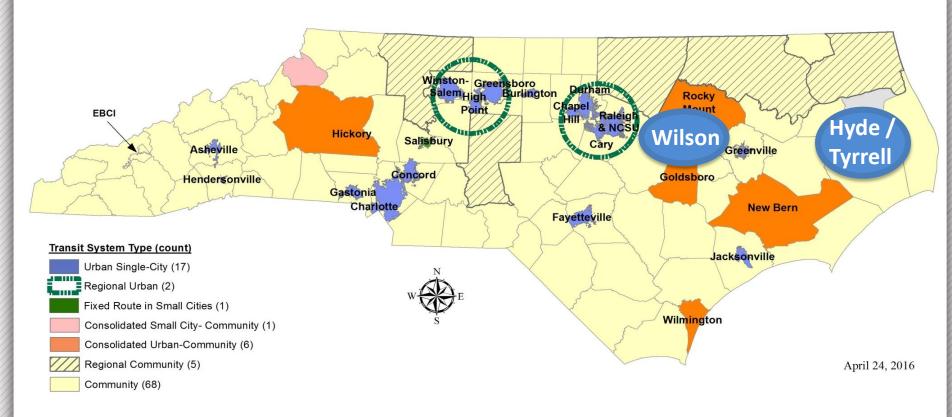
### **Public Transportation Division**

**Debbie Collins** 

September 6, 2017

# **Highlights**

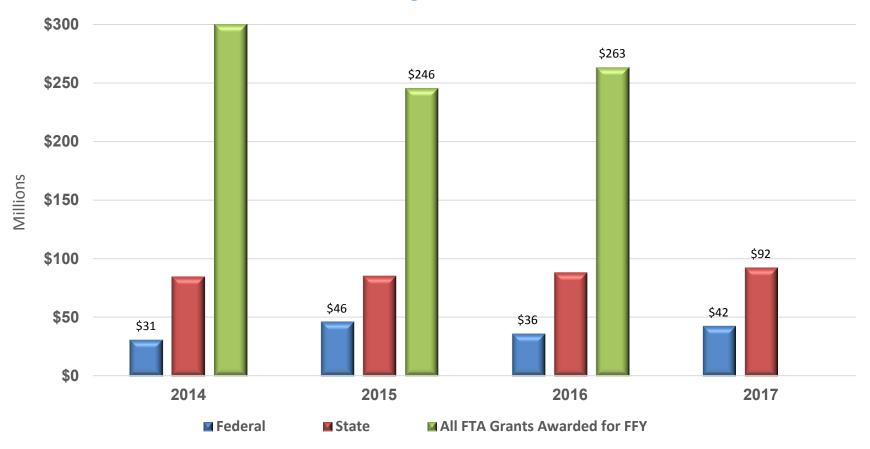
#### North Carolina Public Transportation Network





New regional / consolidated systems on July 1, 2017 Salisbury and EBCI – FTA Direct Recipients

# Federal Transit Administration and State Highway Fund Projects - Managed by NCDOT by Fiscal Year



Federal Transit Administration (FTA) Grant Awards for FFY 2017 available in January 2018

Control

## 20 Federal Oversight Areas

	Zu i edelai Oversigiit Areas				
1	Financial Management & Capacity	10	Planning / Program of Projects		
2	Technical Capacity	11	Public Comment–Fares & Service Changes		
3	Maintenance	12	Half Fare		
4	Americans with Disabilities Act (ADA)	13	Charter Bus		
5	Title VI	14	School Bus		
6	Procurement	15	Security		
7	Disadvantaged Business Enterprise	16	Drug Free Workplace/ Drug and Alcohol Program		
8	Legal	17	Equal Employment Opportunity		
9	Satisfactory Continuing	AND	Safety (SMS), NTD, TAMS		

STATE

**NC** Grants, single audit

## **FY 17 New State Funding**

# Rural Operating Assistance Program (ROAP)

- \$2 M additional funds
- Requirements
  - Quarterly Reports
  - ½ of 1% withheld for late reports

#### State Maintenance Assistance Program (SMAP)

- \$2 M additional funds
- Requirements
  - Quarterly Reports
  - ½ of 1% withheld for late reports
  - GTFS Feed by June 20, 2016
  - Large UZAs must have 5307 allocation plan

## **FY 18 New State Funding**

# Consolidation / Coordination Funding

- \$1.5 M FY 18; \$2M in FY19
- Requirements
  - Plan
  - Distributed by Transit system with cap of \$200K
  - December 1 annual report to Joint Legislative Oversight Committee

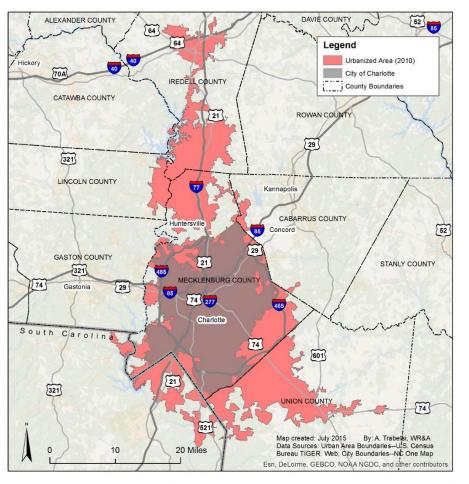
# Federal Transit Administration (FTA) Formula Program – N.C. Federal FY17 Apportionments

FTA Program	Title	FFY17 NC Funding		
5303 / 5304	Metropolitan and Statewide Planning	\$2,674,886		
5310	Enhanced Mobility for Adults and People with Disabilities	\$7,733,373		
5311	Non-urbanized Area Formula	\$29,212,539		
5307	Urbanized Area Formula	\$71,991,392		
5309*	Fixed Guideway Capital Investment Grants (CIG)	\$174,999,999		
5329	State Safety Oversight	\$342,620		
5337*	State of Good Repair Formula (Rail)	\$2,534,799		
5339	Bus and Bus Facilities Formula (New funding with FAST Act)	\$8,299,924		
North Carolina Federal Formula Program FFY 2017 Total \$297,789,53				
Source: FTA FFY 17 Apportionment Tables by Funding Program				

<sup>8</sup> 

# Urban / Rural Graduation Successes – 5307 Distribution

#### Charlotte 2010 Urbanized Area



- Generated 5307 FFY16 and FFY17 Apportionments – all urbanized areas
- Created and implementing
   Cost Allocation model to
   designate rural and urban cost
   splits
- 9 of 11 Large UZAs have adopted a 5307 allocation plan
- FY18 5307 funding for 8 large UZA 5311 recipients through NCDOT from 4 MPOs
- Other MPOs using sub recipient models to distribute funds

# New 5311 Formula Implemented

#### Goals

- Supports coordination model
- Supports regionalism
- Rewards performance
- Every county receives funding
- Formula driven
- Simple and transparent
- Flexible system defines how using funding
  - SUCCESSES used allocation for Operating and Administration:
    - Avery County Transportation
    - YVEDDI

#### Formula

- Supports administration and operations
- Capital focus on replacement vehicles

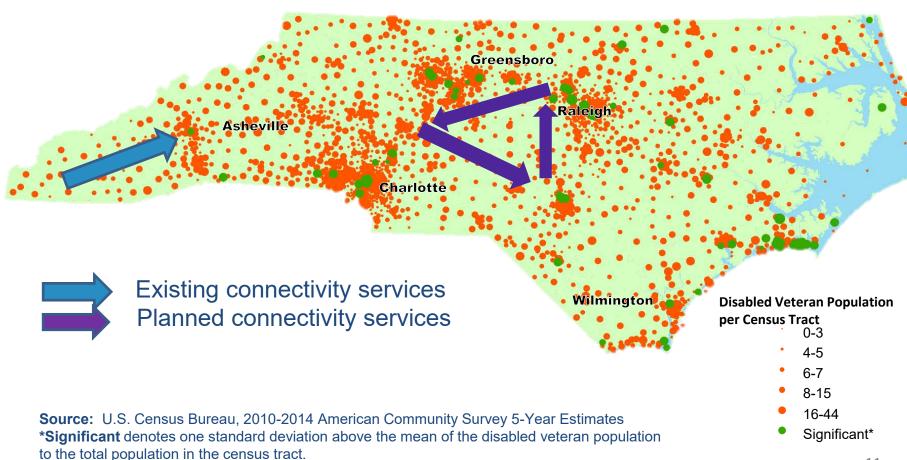
#### Three tiered formula:

- Base tier: \$30,000 is allocated for every county a community transportation system serves
- Needs tier: Uses FTA 5311
  Formula rural population, rural land area, low-income population and revenue vehicle miles
- Performance tier: 10% of total
   5311 and 5340 grantee funding

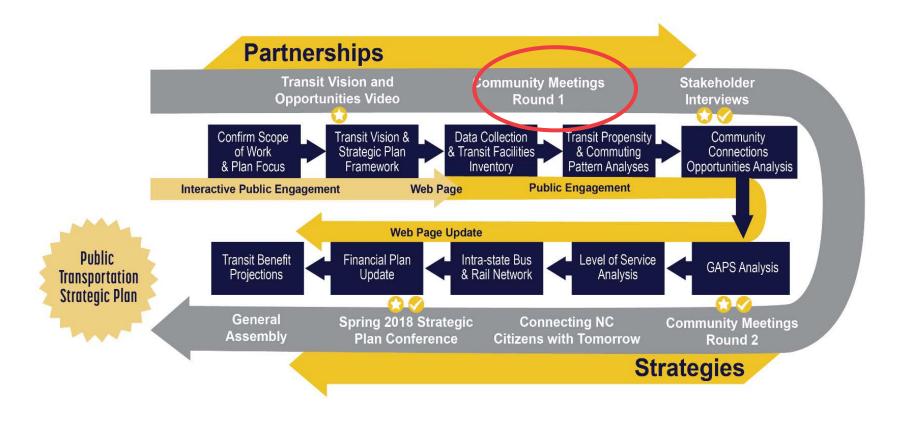
#### NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

## PUBLIC TRANSPORTATION STRATEGIC PLAN

## Connecting North Carolinians to Opportunities





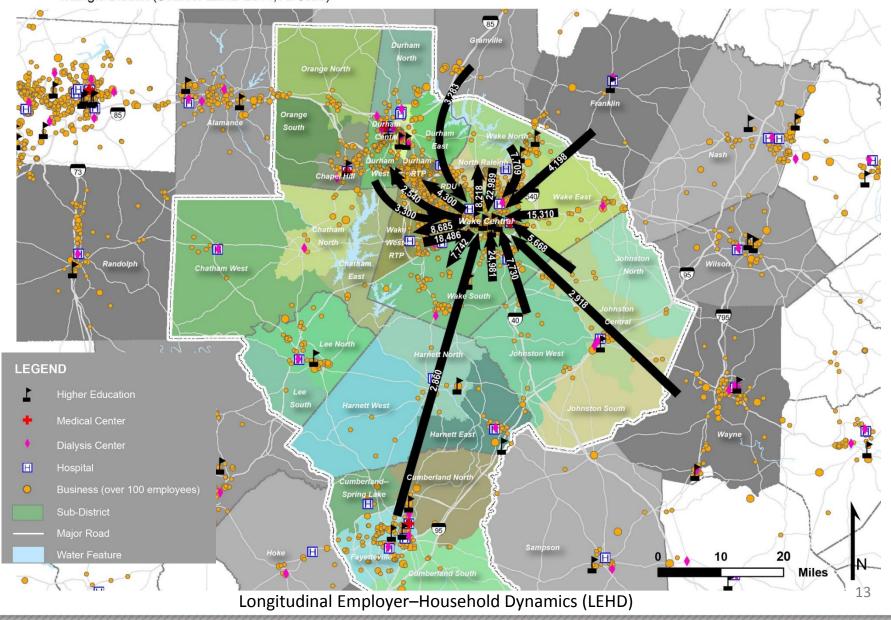


Executive Leadership Committee

Technical / Steering Committee

#### **Sub-District Commuter Flow Analysis**

Triangle District (Source: LEHD 2014, All Jobs)



## Comments From Local Boards

- Why is transit important to your community?
- How can we build stronger and more effective partnerships?
- What programs or initiatives should be included in the Strategic Plan?

## ncdot.gov

Round 2 - Community Meetings	Date	Location	
Northeastern (12:30 p.m. to 3:30 p.m.)	10/2/17	Pitt County Agricultural Extension Auditorium 403 Government Circle, Suite 2 Greenville, NC 27834	
Southeastern (12:30 p.m. to 3:30 p.m.)	10/4/17	Bladen Community College Auditorium 7418 Highway 41 West, Dublin, NC	
Technology (9:30 a.m. to 11:30 a.m.)	10/5/17	Research Triangle Foundation Meeting Rooms A&B 12 Davis Drive Durham, NC 27709	
Triangle (12:30 p.m. to 3:30 p.m.)	10/5/17	Research Triangle Foundation Meeting Rooms A&B 12 Davis Drive Durham, NC 27709	
Charlotte / Gastonia / Kannapolis (12:30 p.m. to 3:30 p.m.)	10/16/17	Rowan-Cabarrus Community College - South Campus Building 1000 (Main Building) Rm 106 (Comm. Rm) 1531 Trinity Church Road Concord, NC 28027	
Mountain North (12:30 p.m. to 3:30 p.m.)	10/17/17	Blue Ridge Energy 2491 US Hwy 421 South Boone, NC 28607	
Land Use (9:30 a.m. to 11:30 a.m.)	10/18/17	Piedmont Authority for Regional Transportation (PART) Board Room 107 Arrow Road Greensboro, NC 27409	
Piedmont (12:30 p.m. to 3:30 p.m.)	10/18/17	Piedmont Authority for Regional Transportation (PART) Board Room 107 Arrow Road Greensboro, NC 27409	
Mountain South (12:30 p.m. to 3:30 p.m.)	10/19/17	Asheville-Buncombe Tech Community College Conference Center, Room B 340 Victoria Road Asheville, NC 28801	

## What Are We Already Doing?

- Performance Plans
  - For CCPs
  - Technology Implementations
- 5 Year Budgets / Budget model / Cost allocation
- Transit Asset Management
  - Replacement Plan
- Benefits of Transit
  - Statewide and by system
- Vehicle Utilization Data 14 days annually
- Operating Statistics
  - Peer Analysis
- Success Plans
  - All 81 rural systems focused on defining / measuring success moments

Net Promoter Score is simply the percentage of **promoters** minus the percentage of **detractors**.



#### **SUCCESS Plan**

2017-2018



## **Community Connectivity Plans (CCP)**

Includes all of our previous planning elements

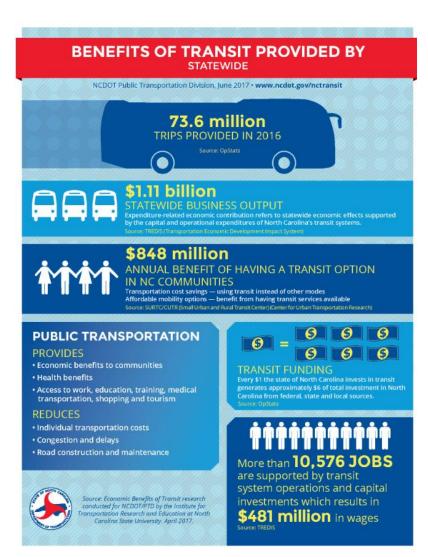
Sized in two categories

Allocates resources in a five year horizon

Integrates regional connectivity

Uses the **Success Plan** as a multi year implementation program

Combines each agency's annual Success Plan and Performance Scorecard



# **Future**

## **Comprehensive Transportation Plan**

## Where project planning starts

#### What if

- define transit corridors
- shorten project development and delivery
- reduce costs / share costs differently?

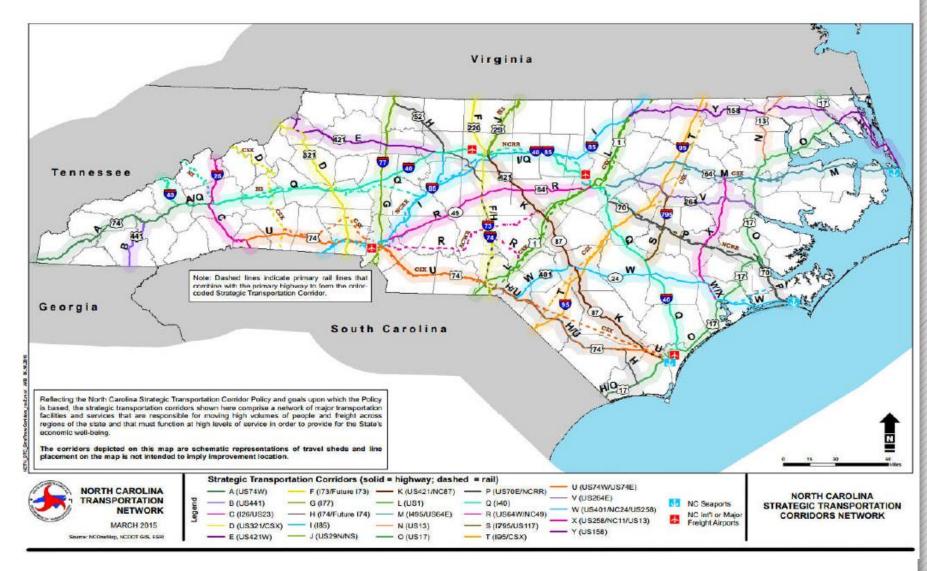
### Examples

- 17' shoulders for Bus on Shoulder (when system breaks down)
- Chapel Hill BRT on MLK / Hwy 86
- Wake County Transit Plan

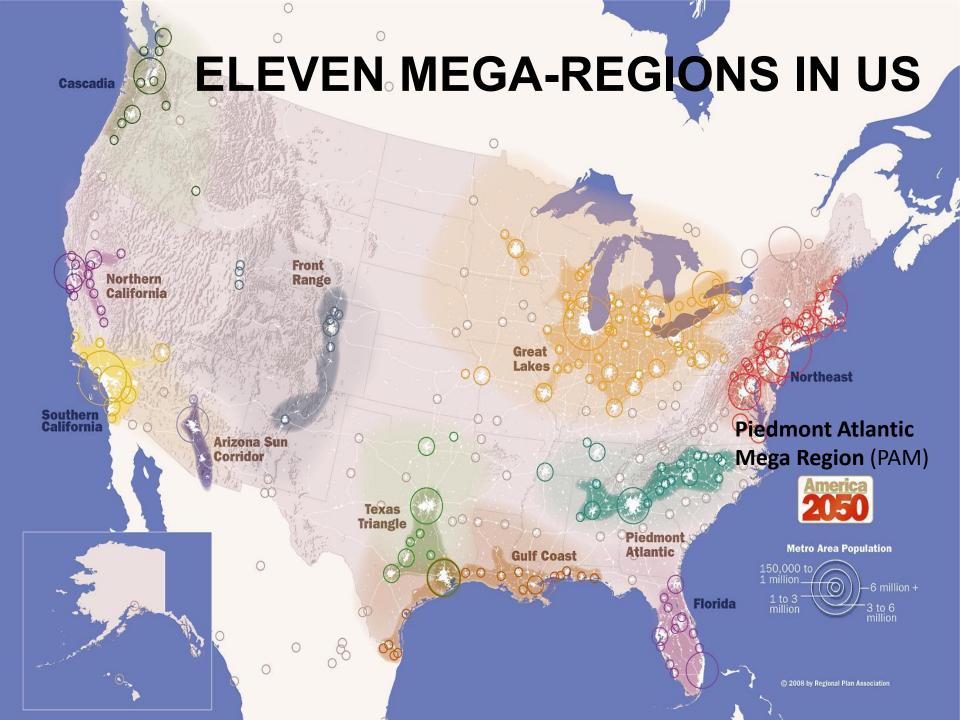




STC Prioritization Framework



Park and Ride lots, arterial Bus Rapid Transit improvements in urbanized areas, pedestrian safety



## What's next?



STI and funding to be ready for growth

Transit included in Comprehensive Transportation Plans (CTPs)



Plan on larger scale

Strategic Plan draft recommendations and funding

Focus moving forward

## **Discussion**

## Thank you!



Debbie Collins
<a href="mailto:dgcollins1@ncdot.gov">dgcollins1@ncdot.gov</a>
(919) 707-4684



# ROAD/BRIDGE/FERRY NAMING COMMITTEE AGENDA

## BOARD OF TRANSPORTATION SEPTEMBER 6, 2017

TIME: 11:15 AM

LOCATION: Room 160

TOPIC	Presenter	TIME
Call to Order	Mike Fox, Chair	11:15 AM
Roll Call		
Declaration of Quorum		
Non-Conflict Statement		
Approval of June 2017 Road/Bridge/Ferry Naming Committee Meeting Minutes		
Dr. John H. Franklin – I-85 from Cole Mill Road to US 70 Bypass, Durham County, Division 5 (Jordan & Szlosberg-Landis)	Leigh Wing	11:20 AM
Richard Sheltra – South Polk Street bridge over Little Sugar Creek, Mecklenburg County, Division 10 (Dodson & Lathrop)	Leigh Wing	11:25 AM
Deputy Todd Cook – US 64 bridge over Abbotts Creek, Bridge #123, Davidson County, Division 9 (Wells & Perkins)	Leigh Wing	11:30 AM
Championship Sign Discussion	Kevin Lacy	11:35 AM
Logo Panel Discussion	Kevin Lacy	11:40 AM
Adjourn	All	11:45 AM