



**MEETING AGENDA**  
**Monthly Meeting of the North Carolina Board of Transportation**  
 1 South Wilmington Street Raleigh, North Carolina 27601  
**November 30 – December 1, 2016**

**WEDNESDAY, November 30, 2016**

**10:30AM – 12:00PM**

Multi-Modal Committee	EIC
Highway Committee	Room 150

**12:00PM – 12:15PM**

**LUNCH IS AVAILABLE / BREAK**

**Room 150**

**12:15PM**

**Working Lunch – Full Board Attendance**

Autonomous Vehicles	Kevin Lacy, Charles Edwards
Product Evaluation Program Awareness	Ben Johnson
NC Scenic Byway Program	Connie Morgan
Honorary Designations of State Transportation Assets and Employee Memorial Program Update	Mike Holder
P5.0 Update	David Wasserman

**1:00PM – 1:15PM**

**BREAK**

**1:15PM – 2:15PM**

Economic Development & Intergovernmental Relations Committee	Room 150
Funding Appropriations and Strategies Committee	EIC

**2:15PM – 2:45PM**

Road, Bridge, Ferry Naming Committee	Room 160
--------------------------------------	----------

**2:45PM – 5:00PM**

General Meeting Time	Various Locations
----------------------	-------------------

**NORTH CAROLINA BOARD OF TRANSPORTATION MEETING**

- Call to Order Chairman Curran
- Invocation Tracy Dodson
- Ethics Declaration Chairman Curran
- Approval of November 3, 2016 Board Meeting Minutes Chairman Curran
- Road and Bridge Naming Resolutions Chairman Curran
- Secretary’s Remarks Secretary Tennyson

**INFORMATION AND DELEGATED AUTHORITY**

- (Item C) Award of Highway Construction Contracts
- (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

Division 2 Update Hugh Overholt

**ACTION**

Chairman Curran

Policy: Honorary Designations of State Transportation Assets and Employee Memorial Program

**Approval of Projects**

- (Item G) Additions and Abandonments to State Secondary Road System
- (Item I) Public Transportation Program
  - (Item I-1A) Public Transportation
  - (Item I-2) Rail Program
  - (Item I-3) Bicycle and Pedestrian
- (Item J) Specific State Funds for Construction Projects
- (Item K) North Carolina Highway Trust Funds
- (Item M) Funds for Specific Federal-Aid Projects
- (Item N) TIP Amendments
- (Item O) Municipal and Special Agreements
- (Item P) Municipal Street System Changes
- (Item R) Right of Way Resolutions and Ordinances
- (Item T) Comprehensive Transportation Plans for Mutual Adoption by the Board of Transportation
- (Item V) Mobility Funds for Construction Projects

Committee Reports Chairman Curran  
Other Business  
Adjourn

**PROJECTS LIST**  
**NORTH CAROLINA BOARD OF TRANSPORTATION**  
**RALEIGH, NORTH CAROLINA**  
**November 30 – December 1, 2016**

Delegated Authority ..... Secretary Tennyson

- (Item C) Award of Highway Construction Contracts from October 18, 2016 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 Curran

- (Item G) Additions, Abandonments, and Road Name Changes to State Secondary Road System
- (Item I) Public Transportation Program
  - (Item I-1) Public Transportation **(No Item this month)**
  - (Item I-1A) Public Transportation
  - (Item I-2) Rail Program
  - (Item I-3) Bicycle and Pedestrian
  - (Item I-4) Aviation **(No Item this month)**
- (Item J) Specific State Funds for Construction Projects
- (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
- (Item R) Right of Way Resolutions and Ordinances
- (Item S) Maintenance Allocations **(No Item this month)**
- (Item T) Submission of Comprehensive Transportation Plans for Mutual Adoption by the Board of Transportation
- (Item V) Mobility Funds for Construction Projects

# **NCDOT Board of Transportation Agenda**

## **ITEM C**

### **November 2016**

**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.  
NOVEMBER, 2016  
DIVISION 00003

PAGE : 1 of 14  
ITEM C

C203922  
17BP.3.R.28

STATE FUNDED  
NEW HANOVER

11/15/2016

PROPOSAL LENGTH 0.17 MILES  
TYPE OF WORK GRADING, DRAINAGE, PAVING, SIGNAL, AND CULVERT.  
LOCATION INTERSECTION OF SR-1436/US-421 AND SR-1140 SOUTH OF WILLARD STREET.

EST CONST PROGRESS.... FY-2017..52% OF BID  
FY-2018..48% OF BID

RPN 003 3 BIDDER(S) MBE GOAL 4.00 % WBE GOAL 6.00%  
ESTIMATE 3,458,114.74

DATE AVAILABLE JAN 03 2017  
INTER COMPLETION APR 30 2018 COMPLETE ALL WORK EXCEPT PLANTING, REFORESTATION, OR  
PERMANENT VEGETATION ESTABLISHMENT  
MAR 17 2017 COMPLETE UTILITY INSTALLATION USING LANE CLOSURES ONLY  
DEC 31 2017 COMPLETE ALL WORK REQUIRED OF PHASE III, STEP #1  
FINAL COMPLETION OCT 27 2018

	\$ TOTALS	% DIFF
MOUNTAIN CREEK CONTRACTORS INC CATAWBA, NC	3,156,247.36	-8.7
WELLS BROTHERS CONSTRUCTION COMPANY, INC. TURKEY, NC	3,218,817.00	-6.9
T. A. LOVING COMPANY GOLDSBORO, NC	3,540,300.00	+2.4

HIGHWAY LETTING  
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS  
RALEIGH N.C.  
NOVEMBER, 2016  
DIVISION 00003

PAGE : 2 of 14  
ITEM C

C203952  
2017CPT.03.03.10711, 2017CPT.03.03.20711, 2017CPT.03.03.20712

STATE FUNDED  
PENDER

11/15/2016

PROPOSAL LENGTH 25.68 MILES  
TYPE OF WORK MILLING, RESURFACING, SHOULDER RECONSTRUCTION, AND GUARDRAIL  
LOCATION 1 SECTION OF US-117 AND 10 SECTIONS OF SECONDARY ROADS.

EST CONST PROGRESS.... FY-2017..71% OF BID  
FY-2018..29% OF BID

RPN 004 3 BIDDER(S) MBE GOAL 4.00 % WBE GOAL 5.00%  
ESTIMATE 4,267,172.82

DATE AVAILABLE JAN 03 2017

FINAL COMPLETION NOV 17 2017

	\$ TOTALS	% DIFF
BARNHILL CONTRACTING COMPANY ROCKY MOUNT, NC	3,854,732.58	-9.7
S T WOOTEN CORPORATION WILSON, NC	4,282,332.15	+0.4
HIGHLAND PAVING COMPANY LLC FAYETTEVILLE, NC	4,372,894.13	+2.5

HIGHWAY LETTING  
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS  
RALEIGH N.C.  
NOVEMBER, 2016  
DIVISION 00003

PAGE : 3 of 14  
ITEM C

C203951  
2017CPT.03.04.10311, 2017CPT.03.04.20311

STATE FUNDED  
DUPLIN

11/15/2016

PROPOSAL LENGTH 52.094 MILES  
TYPE OF WORK MILLING, RESURFACING, SHLD RECON, GUARDRAIL, AND SIGNALS.  
LOCATION 1 SECTION EACH OF US-117 & US-117/NC-50, AND 10 SECTIONS OF SECONDARY ROADS.

EST CONST PROGRESS.... FY-2017..66% OF BID  
FY-2018..34% OF BID

RPN 005 2 BIDDER(S) MBE GOAL 4.00 % WBE GOAL 5.00%  
ESTIMATE 8,700,321.44

DATE AVAILABLE JAN 16 2017

FINAL COMPLETION DEC 01 2017

	\$ TOTALS	% DIFF
BARNHILL CONTRACTING COMPANY ROCKY MOUNT, NC	8,748,389.00	+0.6
ROSE BROTHERS PAVING CO INC AHOSKIE, NC	9,935,089.35	+14.2

HIGHWAY LETTING  
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS  
RALEIGH N.C.  
NOVEMBER, 2016  
DIVISION 00004

PAGE : 4 of 14  
ITEM C

C203949  
38410.3.1, 45619.3.1

BRZ-2143(002), STATE FUNDED  
JOHNSTON, WAYNE  
B-4562, B-5664  
11/15/2016

PROPOSAL LENGTH 1.165 MILES  
TYPE OF WORK EXPRESS DESIGN BUILD.  
LOCATION REPLACEMENT OF SEVEN BRIDGES IN JOHNSTON COUNTY AND ONE BRIDGE IN WAYNE COUNTY.

EST CONST PROGRESS.... FY-2017..09% OF BID  
FY-2018..43% OF BID  
FY-2019..31% OF BID  
FY-2020..17% OF BID

RPN 010 5 BIDDER(S) DBE GOAL 9.00 %  
ESTIMATE 8,256,529.00

DATE AVAILABLE JAN 03 2017  
FINAL COMPLETION JUN 01 2020

	\$ TOTALS	% DIFF
T. A. LOVING COMPANY GOLDSBORO, NC	7,607,500.00	-7.9
S T WOOTEN CORPORATION WILSON, NC	7,665,650.00	-7.2
UNITED CONTRACTORS, INC. DBA UNITED CONTRACTORS INC. OF IOWA JOI	7,682,485.00	-7.0
PALMETTO INFRASTRUCTURE INC GREENVILLE, SC	8,892,050.00	+7.7
FSC II LLC DBA FRED SMITH COMPANY RALEIGH, NC	9,480,000.00	+14.8

HIGHWAY LETTING  
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS  
RALEIGH N.C.  
NOVEMBER, 2016  
DIVISION 00006

PAGE : 5 of 14  
ITEM C

C203950  
17BP.6.R.77

STATE FUNDED  
ROBESON

11/15/2016

PROPOSAL LENGTH 0.417 MILES  
TYPE OF WORK EXPRESS DESIGN BUILD.  
LOCATION REPLACEMENT OF 6 BRIDGE IN ROBESON COUNTY.

EST CONST PROGRESS.... FY-2017..08% OF BID  
FY-2018..39% OF BID  
FY-2019..34% OF BID  
FY-2020..19% OF BID

RPN 011 5 BIDDER(S) MBE GOAL 4.00 % WBE GOAL 5.00%  
ESTIMATE 5,087,819.00

DATE AVAILABLE JAN 03 2017

FINAL COMPLETION JUN 15 2020

	\$ TOTALS	% DIFF
E.S. WAGNER COMPANY, LLC - SOUTH CA PIEDMONT, SC	4,167,026.04	-18.1
R.E. BURNS & SONS CO., INC. STATESVILLE, NC	4,266,100.00	-16.2
SMITH-ROWE, LLC MOUNT AIRY, NC	4,468,079.38	-12.2
S & C CONSTRUCTION LLC WILMINGTON, NC	4,624,581.95	-9.1
DANE CONSTRUCTION, INC. MOORESVILLE, NC	4,992,540.00	-1.9

HIGHWAY LETTING  
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS  
RALEIGH N.C.  
NOVEMBER, 2016  
DIVISION 00006

PAGE : 6 of 14  
ITEM C

C203961  
15006.1024015, 50138.3.47

STATE FUNDED, HSIP-0701(031)  
COLUMBUS  
W-5601AT  
11/22/2016

PROPOSAL LENGTH 0.4 MILES  
TYPE OF WORK EXPRESS DESIGN BUILD.  
LOCATION REPLACEMENT OF ONE CULVERT IN COLUMBUS COUNTY AND SAFETY IMPROVEMENTS.

EST CONST PROGRESS.... FY-2017..100% OF BID

RPN 001 5 BIDDER(S) DBE GOAL 7.00 %  
ESTIMATE 1,603,929.15

DATE AVAILABLE JAN 03 2017  
FINAL COMPLETION MAY 25 2017

	\$ TOTALS	% DIFF
E.S. WAGNER COMPANY, LLC - SOUTH CA PIEDMONT, SC	1,451,204.29	-9.5
SANFORD CONTRACTORS INC LEMON SPRINGS, NC	1,456,500.00	-9.2
T. A. LOVING COMPANY GOLDSBORO, NC	1,484,880.00	-7.4
SMITH-ROWE, LLC MOUNT AIRY, NC	1,622,080.82	+1.1
R.E. BURNS & SONS CO., INC. STATESVILLE, NC	1,680,050.00	+4.7



HIGHWAY LETTING  
 NORTH CAROLINA DEPARTMENT OF TRANSPORTATION  
 DIVISION OF HIGHWAYS  
 RALEIGH N.C.  
 NOVEMBER, 2016  
 DIVISION 00009

PAGE : 8 of 14  
 ITEM C

C203840  
 34409.3.23

NHP-0421(088)  
 FORSYTH  
 R-2247CD, R-2247EC  
 11/15/2016

PROPOSAL LENGTH 1.8 MILES  
 TYPE OF WORK DESIGN BUILD.  
 LOCATION MODIFICATION OF US-421 INTERCHANGE AND WITH SR-1891 & US-52 INTERCHANGE WITH NC-65.

EST CONST PROGRESS.... FY-2017..08% OF BID  
 FY-2018..39% OF BID  
 FY-2019..33% OF BID  
 FY-2020..20% OF BID

RPN 014                      3 BIDDER(S)                      DBE GOAL 13.00 %  
ESTIMATE 51,540,170.00

DATE AVAILABLE            JAN 03 2017  
 FINAL COMPLETION        JUL 01 2020

QUALITY ADJUSTED PRICE RANKING

PROPOSAL	TECH SCORE	QUALITY CREDIT %	ACTUAL CONT AMT (PRICE PROP)	ACT % DIFF	QUALITY VALUE	CONT AWARD BASIS (ADJ PRICE)	ADJ % DIFF
BLYTHE CONSTRUCTION, INC.	88.50	9.25	43,900,000.00	-14.8	4,060,750.00	39,839,250.00	-22.7
JOINT VENTURE SMITH ROWE/THOMPSON	87.00	8.50	48,800,000.00	-5.3	4,148,000.00	44,652,000.00	-13.4
E.S. WAGNER COMPANY, LLC - SOUTH CA	85.00	7.50	52,019,618.85	+0.9	3,901,471.41	48,118,147.44	-6.6

PROPOSAL	PROPOSED COMPLETION DATE
BLYTHE CONSTRUCTION, INC.	SEP 05 2019
JOINT VENTURE SMITH ROWE/THOMPSON ART-	MAY 29 2020
E.S. WAGNER COMPANY, LLC - SOUTH CA	MAR 31 2020

HIGHWAY LETTING  
 NORTH CAROLINA DEPARTMENT OF TRANSPORTATION  
 DIVISION OF HIGHWAYS  
 RALEIGH N.C.  
 NOVEMBER, 2016  
 DIVISION 00010

C203803  
 39010.3.2

STATE FUNDED  
 CABARRUS  
 U-3440  
 11/15/2016

PROPOSAL LENGTH 2.646 MILES  
 TYPE OF WORK GRADING, DRAINAGE, PAVING, SIGNALS, AND STRUCTURES.  
 LOCATION NC-3 FROM PROPOSED WEST SIDE BYPASS TO SR-1691 (LOOP ROAD) IN KANNAPOLIS.

EST CONST PROGRESS.... FY-2017..16% OF BID  
 FY-2018..46% OF BID  
 FY-2019..31% OF BID  
 FY-2020..07% OF BID

RPN 007                      8 BIDDER(S)                      MBE GOAL 5.00 %                      WBE GOAL 6.00%  
ESTIMATE 25,417,554.87

DATE AVAILABLE                      MAR 15 2017

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

FINAL COMPLETION                      MAY 13 2020

	\$ TOTALS	% DIFF
J. T. RUSSELL & SONS, INC. ALBEMARLE, NC	28,561,337.70	+12.4
TRIANGLE GRADING & PAVING INC BURLINGTON, NC	28,966,416.45	+14.0
BLYTHE CONSTRUCTION, INC. CHARLOTTE, NC	29,299,058.90	+15.3
SEALAND CONTRACTORS CORP CHARLOTTE, NC	29,680,459.22	+16.8
YOUNG & MCQUEEN GRADING CO INC BURNSVILLE, NC	29,743,321.12	+17.0
FLATIRON CONSTRUCTORS INC MORRISVILLE, NC	30,199,632.59	+18.8
BLYTHE DEVELOPMENT CO. CHARLOTTE, NC	30,340,952.97	+19.4
BRANCH HIGHWAYS, INC. ROANOKE, VA	31,402,245.17	+23.5

HIGHWAY LETTING  
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS  
RALEIGH N.C.  
NOVEMBER, 2016  
DIVISION 00010

PAGE : 10 of 14  
ITEM C

C203916  
44797.3.1

NHP-0485(044)  
MECKLENBURG  
I-5960  
11/15/2016

PROPOSAL LENGTH 3.971 MILES  
TYPE OF WORK PAVEMENT AND BRIDGE REHABILITATION  
LOCATION I-485 FROM MM 35.8 TO MM 39.7.

EST CONST PROGRESS.... FY-2017..64% OF BID  
FY-2018..36% OF BID

RPN 008 4 BIDDER(S) DBE GOAL 5.00 %  
ESTIMATE 5,234,096.80

DATE AVAILABLE APR 01 2017  
FINAL COMPLETION SEP 30 2017

	\$ TOTALS	% DIFF
J. T. RUSSELL & SONS, INC. ALBEMARLE, NC	5,821,947.01	+11.2
THE LANE CONSTRUCTION CORPORATION CHESHIRE, CT	5,966,397.22	+14.0
BLYTHE BROTHERS ASPHALT CO LLC CHARLOTTE, NC	6,387,988.55	+22.0
BLYTHE CONSTRUCTION, INC. CHARLOTTE, NC	6,416,658.90	+22.6

HIGHWAY LETTING  
 NORTH CAROLINA DEPARTMENT OF TRANSPORTATION  
 DIVISION OF HIGHWAYS  
 RALEIGH N.C.  
 NOVEMBER, 2016  
 DIVISION 00011

C203801  
 34518.3.FR3

STP-0221(41)  
 ASHE  
 R-2915C  
 11/15/2016

PROPOSAL LENGTH 3.979 MILES  
 TYPE OF WORK GRADING, DRAINAGE, PAVING, CULVERT, AND RETAINING WALLS.  
 LOCATION US-221 FROM NORTH OF SOUTH FORK NEW RIVER TO SOUTH OF NC-194.

EST CONST PROGRESS.... FY-2017..20% OF BID  
 FY-2018..37% OF BID  
 FY-2019..26% OF BID  
 FY-2020..17% OF BID

RPN 001                      5 BIDDER(S)                      DBE GOAL    9.00 %  
ESTIMATE 58,790,353.93

DATE AVAILABLE            JAN 03 2017  
 INTER COMPLETION        SEE BELOW COMPLETE ALL WORK EXCEPT PLANTING, REFORESTATION, OR  
 PERMANENT VEGETATION ESTABLISHMENT.  
 FINAL COMPLETION        DEC 28 2020

	\$ TOTALS	% DIFF
VECELLIO & GROGAN INC BECKLEY, WV	57,986,044.51	-1.4
W. C. ENGLISH, INCORPORATED LYNCHBURG, VA	69,499,673.14	+18.2
BRANCH HIGHWAYS, INC. ROANOKE, VA	70,884,124.42	+20.6
JAMES R VANNOY & SONS CONSTRUCTION COMPANY INC JEFFERSON, NC	72,325,927.82	+23.0
MAYMEAD, INC. MOUNTAIN CITY, TN	83,381,478.45	+41.8

SUMMARY OF BIDS FOR CONTRACT C203801 WITH THE CONTRACT TIME BEING BID BY EACH BIDDER

DAILY COST = \$4,500.00 / DAY

MAXIMUM NUMBER OF DAYS ALLOWED = 1275

	CONTRACT TIME (CALENDAR DAYS)	CONTRACT AWARD BASIS	ACTUAL CONTRACT AMOUNT
ESTIMATED	1230	58,790,353.93	53,255,353.93
VECELLIO & GROGAN INC	1095	57,986,044.51	53,058,544.51
W. C. ENGLISH, INCORPORATED	1035	69,499,673.14	64,842,173.14
BRANCH HIGHWAYS, INC.	1060	70,884,124.42	66,114,124.42

HIGHWAY LETTING  
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS  
RALEIGH N.C.  
NOVEMBER, 2016

PAGE : 12 of 14  
ITEM C

---

SUMMARY OF BIDS FOR CONTRACT C203801 WITH THE CONTRACT TIME BEING BID BY EACH BIDDER

DAILY COST = \$4,500.00 / DAY

MAXIMUM NUMBER OF DAYS ALLOWED = 1275

	CONTRACT TIME (CALENDAR DAYS)	CONTRACT AWARD BASIS	ACTUAL CONTRACT AMOUNT
ESTIMATED	1230	58,790,353.93	53,255,353.93
JAMES R VANNOY & SONS CONSTRUCTION COMPANY INC	1274	72,325,927.82	66,592,927.82
MAYMEAD, INC.	1275	83,381,478.45	77,643,978.45

\*ACTUAL CONTRACT AMOUNT = CONTRACT AWARD BASIS - (CONTRACT TIME) (DAILY COSTS)

---

---

HIGHWAY LETTING  
 NORTH CAROLINA DEPARTMENT OF TRANSPORTATION  
 DIVISION OF HIGHWAYS  
 RALEIGH N.C.  
 NOVEMBER, 2016  
 DIVISION 00011

PAGE : 13 of 14  
 ITEM C

C203918  
 17BP.11.R.118

STATE FUNDED  
 AVERY, WATAUGA

11/15/2016

PROPOSAL LENGTH 0.344 MILES  
 TYPE OF WORK DESIGN BUILD.  
 LOCATION REPLACEMENT OF 1 BRIDGE IN AVERY COUNTY AND 4 BRIDGES IN WATAUGA COUNTY.

EST CONST PROGRESS.... FY-2017..08% OF BID  
 FY-2018..34% OF BID  
 FY-2019..32% OF BID  
 FY-2020..26% OF BID

RPN 012                      5 BIDDER(S)                      MBE GOAL 2.00 %                      WBE GOAL 5.00%  
ESTIMATE 4,459,787.00

DATE AVAILABLE              JAN 03 2017  
 FINAL COMPLETION              MAY 01 2020

	\$ TOTALS	% DIFF
SUMMERS-TAYLOR, INC. ELIZABETHTON, TN	4,461,850.00	+0.0
R.E. BURNS & SONS CO., INC. STATESVILLE, NC	4,488,244.00	+0.6
JAMES R VANNOY & SONS CONSTRUCTION COMPANY INC JEFFERSON, NC	5,157,516.99	+15.6
UNITED INFRASTRUCTURE GROUP INC GREAT FALLS, SC	5,700,000.00	+27.8
CROWDER CONSTRUCTION COMPANY CHARLOTTE, NC	5,914,725.00	+32.6



**NCDOT December 2016  
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 Engineer**

After careful evaluation of the workload and schedules of the work that can be accomplished by our staff, it was determined necessary to employ a private firm to provide the CEI 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. This is for information only.

**DIVISION 7**

Project:	34820.3.30 (U-2524D) Guilford County Future I-840, from US 220 (Battleground Ave) to SR 2303 (Lawndale Dr), (2.1 mile) Construct Freeway on new location
Scope of Work:	Construction Engineering and Inspection Services
Estimated Construction Cost:	\$75,600,00.00
Firm:	Rummel, Klepper & Kahl, LLP, Raleigh, NC
Maximum Engineering Fee:	\$5,000,000.00
SPSF Utilization:	0%

**Deputy Chief Engineer**

**Materials and Tests**

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

**STATEWIDE**

Description of Work:	2014-2016 Materials and Tests LSC
Firm:	S&ME, Inc., Raleigh, NC
Original Engineering Fee:	\$1,000,000.00
Supplemental Fee:	\$ 570,000.00
DBE/MBE/SPSF Utilization:	Trimat Materials Testing, Inc. \$142,500.00 25%

## 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 for Right of Way LSC on an as needed basis for various federal-aid and state funded projects to support the Right of Way Unit. These contracts will expire 2 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:	Right of Way LSC
Firm:	Professional Property Services, Inc., Cornelius, NC
Maximum Engineering Fee:	\$5,000,000.00
SPSF Utilization:	0%
Description of Work:	Right of Way LSC
Firm:	Vistabution, LLC, Raleigh, NC
Maximum Engineering Fee:	\$5,000,000.00
DBE/MBE/SPSF Utilization:	100%
Description of Work:	Right of Way LSC
Firm:	Acquirelo, LLC, Taylorsville, NC
Maximum Engineering Fee:	\$5,000,000.00
SPSF Utilization:	0%
Description of Work:	Right of Way LSC
Firm:	Southeastern Right of Way, LLC, Wilmington, NC
Maximum Engineering Fee:	\$5,000,000.00
SPSF Utilization:	100%
Description of Work:	Right of Way LSC
Firm:	Carolina Land Acquisitions, Inc., Zebulon, NC
Maximum Engineering Fee:	\$5,000,000.00
SPSF Utilization:	100%
Description of Work:	Right of Way LSC
Firm:	Right of Way Consultants, LLC, Winston- Salem, NC
Maximum Engineering Fee:	\$5,000,000.00
SPSF Utilization:	0%
Description of Work:	Right of Way LSC
Firm:	Hearns Real Estate Solutions, LLC, Charlotte, NC
Maximum Engineering Fee:	\$5,000,000.00
DBE/MBE/SPSF Utilization:	100%

Description of Work:	Right of Way LSC
Firm:	Premier Design Builders, Inc., Kernersville, NC
Maximum Engineering Fee:	\$5,000,000.00
DBE/MBE/SPSF Utilization:	100%
Description of Work:	Right of Way LSC
Firm:	The Right of Way Group, LLC, Lumberton, NC
Maximum Engineering Fee:	\$5,000,000.00
SPSF Utilization:	0%
Description of Work:	Right of Way LSC
Firm:	TELICS, Pineville, NC
Maximum Engineering Fee:	\$5,000,000.00
SPSF Utilization:	0%
Description of Work:	Right of Way LSC
Firm:	Vaughn & Melton Consulting Engineers, Asheville, NC
Maximum Engineering Fee:	\$5,000,000.00
SPSF Utilization:	0%
Description of Work:	Right of Way LSC
Firm:	HNTB North Carolina, PC, Raleigh, NC
Maximum Engineering Fee:	\$5,000,000.00
SPSF Utilization:	0%
Description of Work:	Right of Way LSC
Firm:	Percheron Professional Services, LLC, Charlotte, NC
Maximum Engineering Fee:	\$5,000,000.00
SPSF Utilization:	0%
Description of Work:	Right of Way LSC
Firm:	Professional Land Management, LLC, Lexington, NC
Maximum Engineering Fee:	\$5,000,000.00
SPSF Utilization:	0%
Description of Work:	Right of Way LSC
Firm:	American Acquisition Group, LLC, Tampa, FL
Maximum Engineering Fee:	\$5,000,000.00
SPSF Utilization:	0%
Description of Work:	Right of Way LSC
Firm:	Florida Acquisition & Appraisal, Inc., Tampa, FL
Maximum Engineering Fee:	\$5,000,000.00
SPSF Utilization:	0%

Description of Work:	Right of Way LSC
Firm:	THC, Inc., Lawrenceville, GA
Maximum Engineering Fee:	\$5,000,000.00
SPSF Utilization:	0%
Description of Work:	Right of Way LSC
Firm:	AECOM Technical Services of North Carolina, Inc., Raleigh, NC
Maximum Engineering Fee:	\$5,000,000.00
SPSF Utilization:	0%
Description of Work:	Right of Way LSC
Firm:	Gulf Coast, LLC, Charlotte, NC
Maximum Engineering Fee:	\$5,000,000.00
SPSF Utilization:	0%
Description of Work:	Right of Way LSC
Firm:	Atkins North America, Inc., Raleigh, NC
Maximum Engineering Fee:	\$5,000,000.00
SPSF Utilization:	0%
Description of Work:	Right of Way LSC
Firm:	HDR Engineering Inc. of the Carolinas, Raleigh, NC
Maximum Engineering Fee:	\$5,000,000.00
SPSF Utilization:	0%
Description of Work:	Right of Way LSC
Firm:	North State Acquisitions, LLC, Albemarle, NC
Maximum Engineering Fee:	\$5,000,000.00
SPSF Utilization:	100%
Description of Work:	Right of Way LSC
Firm:	O.R. Colan Associates, LLC, Charlotte, NC
Maximum Engineering Fee:	\$5,000,000.00
DBE/WBE Utilization:	100%

**Utilities**

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 Utilities Design on an as needed basis for various federal-aid and state funded projects to support the Utilities Unit. These contracts will expire 2 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:	Utilities Design LSC
Firm:	AECOM Technical Services of North Carolina, Inc., Raleigh, NC
Maximum Engineering Fee:	\$500,000.00
SPSF Utilization:	0%
Description of Work:	Utilities Design LSC
Firm:	CH Engineering, PLLC, Raleigh, NC
Maximum Engineering Fee:	\$500,000.00
DBE/WBE/SPSF Utilization:	100%
Description of Work:	Utilities Design LSC
Firm:	Davis-Martin-Powell & Associates, Inc., High Point, NC
Maximum Engineering Fee:	\$500,000.00
SPSF Utilization:	100%
Description of Work:	Utilities Design LSC
Firm:	Dewberry Engineers, Inc., Raleigh, NC
Maximum Engineering Fee:	\$500,000.00
SPSF Utilization:	0%
Description of Work:	Utilities Design LSC
Firm:	HDR Engineering, Inc., of the Carolinas, Raleigh, NC
Maximum Engineering Fee:	\$500,000.00
SPSF Utilization:	0%
Description of Work:	Utilities Design LSC
Firm:	Hinde Engineering, Inc., Charlotte, NC
Maximum Engineering Fee:	\$500,000.00
SPSF Utilization:	100%
Description of Work:	Utilities Design LSC
Firm:	MA Engineering Consultants, Inc., Cary, NC
Maximum Engineering Fee:	\$500,000.00
DBE/MBE/SPSF Utilization:	100%
Description of Work:	Utilities Design LSC
Firm:	McGill Associates, P A, Asheville, NC
Maximum Engineering Fee:	\$500,000.00
SPSF Utilization:	100%
Description of Work:	Utilities Design LSC
Firm:	Municipal Engineering Services CO., PA, Garner, NC
Maximum Engineering Fee:	\$500,000.00
SPSF Utilization :	100%

Description of Work: Utilities Design LSC  
Firm: Rummel Klepper & Kahl, LLP, Raleigh, NC  
Maximum Engineering Fee: \$500,000.00  
SPSF Utilization: 0%

Description of Work: Utilities Design LSC  
Firm: STV Engineers, Inc., Charlotte, NC  
Maximum Engineering Fee: \$500,000.00  
SPSF Utilization: 0%

Description of Work: Utilities Design LSC  
Firm: TGS Engineers, Shelby, NC  
Maximum Engineering Fee: \$500,000.00  
SPSF Utilization: 100%

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 Utilities Coordination on an as needed basis for various federal-aid and state funded projects to support the Utilities Unit. These contracts will expire 2 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: Utilities Coordination LSC  
Firm: AECOM Technical Services of North Carolina, Inc., Raleigh, NC  
Maximum Engineering Fee: \$500,000.00  
SPSF Utilization: 0%

Description of Work: Utilities Coordination LSC  
Firm: Cardno, Inc., Charlotte, NC  
Maximum Engineering Fee: \$500,000.00  
SPSF Utilization: 0%

Description of Work: Utilities Coordination LSC  
Firm: CH Engineering, PLLC, Raleigh, NC  
Maximum Engineering Fee: \$500,000.00  
DBE/WBE/SPSF Utilization: 100%

Description of Work: Utilities Coordination LSC  
Firm: Davis-Martin-Powell & Associates, Inc., High Point, NC  
Maximum Engineering Fee: \$500,000.00  
SPSF Utilization: 100%

Description of Work: Utilities Coordination LSC  
Firm: ICE of Carolinas, PLLC, Raleigh, NC  
Maximum Engineering Fee: \$500,000.00  
SPSF Utilization: 100%

**December 1, 2016**

Description of Work:	Utilities Coordination LSC
Firm:	KCI Associates of North Carolina, PA, Raleigh, NC
Maximum Engineering Fee:	\$500,000.00
SPSF Utilization:	0%
Description of Work:	Utilities Coordination LSC
Firm:	Michael Baker Engineering, Inc., Cary, NC
Maximum Engineering Fee:	\$500,000.00
SPSF Utilization:	0%
Description of Work:	Utilities Coordination LSC
Firm:	Rummel Klepper & Kahl, LLP, Raleigh, NC
Maximum Engineering Fee:	\$500,000.00
SPSF Utilization:	0%
Description of Work:	Utilities Coordination LSC
Firm:	So-Deep US, PC, Raleigh, NC
Maximum Engineering Fee:	\$500,000.00
SPSF Utilization:	100%
Description of Work:	Utilities Coordination LSC
Firm:	STV Engineers, Inc., Charlotte, NC
Maximum Engineering Fee:	\$500,000.00
SPSF Utilization:	0%
Description of Work:	Utilities Coordination LSC
Firm:	TELICS, Pineville, NC
Maximum Engineering Fee:	\$500,000.00
SPSF Utilization:	0%
Description of Work:	Utilities Coordination LSC
Firm:	Vaughn & Melton Consulting Engineers, Asheville, NC
Maximum Engineering Fee:	\$500,000.00
SPSF Utilization:	0%
Description of Work:	Utilities Coordination LSC
Firm:	Wetherill Engineering, Inc., Raleigh, NC
Maximum Engineering Fee:	\$500,000.00
DBE/WBE/SPSF Utilization:	100%

**Transit**

**Public Transportation**

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 Public Transportation Services on an as needed basis for various federal-aid and state funded projects to support the Public Transportation Division. These contracts will expire three (3) years (and one (1) one-year extension possible) after the date of execution or after the contract amount has been depleted, whichever occurs first. Our staff has completed the actions for employing private firms in accordance with the policies and procedures adopted by the Board on May 7, 2009. These are for information only.

**STATEWIDE**

Description of Work:	2017 Public Transportation LSC
Firm:	AECOM Technical Services of North Carolina, Inc., Raleigh, NC
Maximum Engineering Fee:	\$750,000.00
DBE/WBE/SPSF Utilization:	Cherry Consulting of the Carolinas, Inc. \$150,000.00 20%
Description of Work:	2017 Public Transportation LSC
Firm:	Asset Management Associates, PLLC, Apex, NC
Maximum Engineering Fee:	\$750,000.00
SPSF Utilization:	100%
Description of Work:	2017 Public Transportation LSC
Firm:	KFH Group, Inc., Bethesda, MD
Maximum Engineering Fee:	\$750,000.00
DBE/WBE/SPSF Utilization :	100%
Description of Work:	2017 Public Transportation LSC
Firm:	RLS & Associates, Inc., Dayton, OH
Maximum Engineering Fee:	\$750,000.00
DBE/WBE/SPSF Utilization:	100%
Description of Work:	2017 Public Transportation LSC
Firm:	TransPro Consulting, LLC, Spring Hill, FL
Maximum Engineering Fee:	\$750,000.00
SPSF Utilization:	Economic Development Research Group, Inc. \$37,500.00 5%
Description of Work:	2017 Public Transportation LSC
Firm:	VHB Engineering NC, PC, Raleigh, NC
Maximum Engineering Fee:	\$750,000.00
DBE/WBE/SPSF Utilization:	Cherry Consulting of the Carolinas, Inc. \$75,000.00 10%
DBE/MBE/SPSF Utilization:	Neighborhood Solutions, LLC \$75,000.00 10%

**December 1, 2016**

Description of Work:	2017 Public Transportation LSC
Firm:	Whitman, Requardt and Associates, LLP, Baltimore, MD
Maximum Engineering Fee:	\$750,000.00
DBE/WBE/SPSF Utilization:	Foursquare ITP    \$112,500.00 15%
SPSF Utilization:	Renaissance Planning Group, Inc. \$112,500.00 15%
DBE/WBE/SPSF Utilization:	Simon Resources, Inc.    \$37,500.00 5%

Description of Work:	2017 Public Transportation LSC
Firm:	WSP   Parsons Brinckerhoff, Raleigh, NC
Maximum Engineering Fee:	\$750,000.00
DBE/WBE/SPSF Utilization:	Cherry Consulting of the Carolinas, Inc. \$187,500.00 25%

### **Planning & Programming**

#### **Transportation Planning**

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 Corridor Planning on an as needed basis for various federal-aid and state funded projects to support the Transportation Planning Branch. These contracts will expire two (2) years (with a one-year extension possible) after the date of execution or after the contract amount has been depleted, whichever occurs first. Our staff has completed the actions for employing private firms in accordance with the policies and procedures adopted by the Board on May 7, 2009. These are for information only.

#### **STATEWIDE**

Description of Work:	Strategic Transportation Corridors Master Plans - Corridor Planning
Firm:	Atkins North America, Inc., Raleigh, NC
Maximum Engineering Fee:	\$500,000.00
SPSF Utilization:	Clearbox Forecast Group,        \$25,000.00 PLLC 5%
DBE/WBE/SPSF Utilization:	Public Information                \$50,000.00 Associates 10%

Description of Work:	Strategic Transportation Corridors Master Plans - Corridor Planning
Firm:	Kimley-Horn & Associates, Inc., Raleigh, NC
Maximum Engineering Fee:	\$500,000.00
DBE/MBE/SPSF Utilization:	Neighborhood Solutions,        \$12,500.00 LLC 2.5%
SPSF Utilization:	SpanishSpeaking                \$12,500.00 2.5%

**December 1, 2016**

Description of Work: Strategic Transportation Corridors Master Plans - Corridor Planning  
Firm: WSP | Parsons Brinckerhoff, Raleigh, NC  
Maximum Engineering Fee: \$500,000.00  
SPSF Utilization: 0%

Description of Work: Strategic Transportation Corridors Master Plans - Corridor Planning  
Firm: H. W. Lochner, Inc., Raleigh, NC  
Maximum Engineering Fee: \$500,000.00  
SPSF Utilization: Clearbox Forecast Group, \$50,000.00  
PLLC  
10%

### Strategic Prioritization Office

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

### STATEWIDE

Project: W02677 Statistical Analysis of Strategic Transportation Investments (STI)  
Scope of Work: P4.0 Statistical Analysis of Strategic Prioritization  
Firm: Cambridge Systematics, Inc., Cambridge, MA  
Original Engineering Fee: \$500,000.00  
Supplemental Fee: \$500,000.00  
Supplemental Work: Local Input Point Process Verification  
SPSF Utilization: 0%

### Technical Services

#### Location & Surveys

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 surveying on an as needed basis for various federal-aid and state funded projects to support the Location & Surveys Unit. These contracts will expire two (2) 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:	2017-2018 LSC
Firm:	Allied Associates, PA, Winston-Salem, NC
Maximum Engineering Fee:	\$2,500,000.00
SPSF Utilization:	100%
Description of Work:	2017-2018 LSC
Firm:	AMEC Foster Wheeler Environment & Infrastructure, Inc., Durham, NC
Maximum Engineering Fee:	\$2,500,000.00
SPSF Utilization:	0%
Description of Work:	2017-2018 LSC
Firm:	Calyx Engineers and Consultants, Inc., Cary, NC
Maximum Engineering Fee:	\$7,000,000.00
DBE/WBE/SPSF Utilization:	100%
Description of Work:	2017-2018 LSC
Firm:	Cardno, Inc., Charlotte, NC
Maximum Engineering Fee:	\$1,000,000.00
SPSF Utilization:	0%
Description of Work:	2017-2018 LSC
Firm:	CH Engineering, PLLC, Raleigh, NC
Maximum Engineering Fee:	\$2,000,000.00
DBE/WBE/SPSF Utilization:	100%
Description of Work:	2017-2018 LSC
Firm:	Dewberry Engineers, Inc., Raleigh, NC
Maximum Engineering Fee:	\$3,000,000.00
SPSF Utilization:	0%
Description of Work:	2017-2018 LSC
Firm:	DRMP, Inc., Charlotte, NC
Maximum Engineering Fee:	\$1,000,000.00
SPSF Utilization:	0%
Description of Work:	2017-2018 LSC
Firm:	ESP Associates, PA, Charlotte, NC
Maximum Engineering Fee:	\$12,000,000.00
SPSF Utilization:	0%
Description of Work:	2017-2018 LSC
Firm:	GEL Engineering of NC Inc., Charleston, SC
Maximum Engineering Fee:	\$3,000,000.00
SPSF Utilization:	0%

Description of Work:	2017-2018 LSC
Firm:	Johnson, Mirmiran & Thompson, Inc., Sparks, MD
Maximum Engineering Fee:	\$1,000,000.00
SPSF Utilization:	0%
Description of Work:	2017-2018 LSC
Firm:	Joyner Keeny, PLLC, Rocky Mount, NC
Maximum Engineering Fee:	\$3,000,000.00
SPSF Utilization:	100%
Description of Work:	2017-2018 LSC
Firm:	KCI Associates of North Carolina, PA, Raleigh, NC
Maximum Engineering Fee:	\$1,000,000.00
SPSF Utilization:	0%
Description of Work:	2017-2018 LSC
Firm:	Mattern & Craig, Inc., Asheville, NC
Maximum Engineering Fee:	\$1,000,000.00
SPSF Utilization:	100%
Description of Work:	2017-2018 LSC
Firm:	McKim & Creed, Inc., Raleigh, NC
Maximum Engineering Fee:	\$4,000,000.00
SPSF Utilization:	0%
Description of Work:	2017-2018 LSC
Firm:	SEPI Engineering & Construction, Inc., Raleigh, NC
Maximum Engineering Fee:	\$2,000,000.00
SPSF Utilization:	0%
Description of Work:	2017-2018 LSC
Firm:	So-Deep   SAM NC, Inc., Raleigh, NC
Maximum Engineering Fee:	\$3,500,000.00
SPSF Utilization:	100%
Description of Work:	2017-2018 LSC
Firm:	Stantec Consulting Services, Inc., Raleigh, NC
Maximum Engineering Fee:	\$3,000,000.00
SPSF Utilization:	0%

Description of Work: 2017-2018 LSC  
Firm: Stewart Engineering, Inc., Raleigh, NC  
Maximum Engineering Fee: \$1,000,000.00  
SPSF Utilization: 100%

Description of Work: 2017-2018 LSC  
Firm: Taylor, Wiseman & Taylor, Cary, NC  
Maximum Engineering Fee: \$2,000,000.00  
SPSF Utilization: 0%

Description of Work: 2017-2018 LSC  
Firm: TGS Engineers, Shelby, NC  
Maximum Engineering Fee: \$5,000,000.00  
SPSF Utilization: 100%

Description of Work: 2017-2018 LSC  
Firm: Vaughn & Melton Consulting Engineers,  
Asheville, NC  
Maximum Engineering Fee: \$6,000,000.00  
SPSF Utilization: 0%

Description of Work: 2017-2018 LSC  
Firm: Wadelynn Geospatial, LLC, Garner, NC  
Maximum Engineering Fee: \$1,000,000.00  
SPSF Utilization: 100%

Description of Work: 2017-2018 LSC  
Firm: Wetherill Engineering, Inc., Raleigh, NC  
Maximum Engineering Fee: \$1,500,000.00  
DBE/WBE/SPSF Utilization: 100%

Description of Work: 2017-2018 LSC  
Firm: WithersRavenel, Inc., Cary, NC  
Maximum Engineering Fee: \$1,000,000.00  
SPSF Utilization: 0%

### **Roadway Design**

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 planning & design engineering services on an as needed basis for various federal-aid and state funded projects to support the Roadway Design and Project Development and Environmental Analysis units. These contracts will expire two (2) years (with an optional one (1) year extension) 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:	2016 Planning & Design LSC	
Firm:	Rummel, Klepper & Kahl, LLP, Raleigh, NC	
Maximum Engineering Fee:	\$8,000,000.00	
DBE/WBE/SPSF Utilization:	Calyx Engineers and Consultants, Inc.	\$160,000.00
	2%	
DBE/MBE/SPSF Utilization:	Accelerate Engineering, PLLC	\$80,000.00
	1%	
SPSF Utilization:	Patriot Transportation Engineering, PLLC	\$80,000.00
	1%	
DBE/WBE/SPSF Utilization:	Falcon Engineering, Inc.	\$320,000.00
	4%	
DBE/MBE/SPSF Utilization:	MM/I and Associates, LLC	\$80,000.00
	1%	
Description Of Work:	2016 Planning & Design LSC	
Firm:	KCI Associates of North Carolina, PA, Raleigh, NC	
Maximum Engineering Fee:	\$5,000,000.00	
DBE/WBE/SPSF Utilization:	Planning Communities, LLC	\$1,000,000.00
	20%	
SPSF Utilization:	Sungate Design Group, PA	\$750,000.00
	15%	
Description Of Work:	2016 Planning & Design LSC	
Firm:	Atkins North America, Inc., Raleigh, NC	
Maximum Engineering Fee:	\$5,000,000.00	
DBE/SPSF Utilization:	MI Engineering, PLLC	\$150,000.00
	3%	
SPSF Utilization:	Hinde Engineering, Inc.	\$150,000.00
	3%	
DBE/WBE/SPSF Utilization:	Planning Communities, LLC	\$250,000.00
	5%	

Description Of Work:	2016 Planning & Design LSC	
Firm:	HNTB of North Carolina, PC, Raleigh, NC	
Maximum Engineering Fee:	\$8,000,000.00	
SPSF Utilization:	Axiom Environmental, Inc.	\$160,000.00
	2%	
SPSF Utilization:	Environmental Services, Inc.	\$160,000.00
	2%	
DBE/MBE/SPSF Utilization:	MA Engineering Consultants, Inc.	\$80,000.00
	1%	
SPSF Utilization:	So-Deep US, PC	\$80,000.00
	1%	

Description Of Work:	2016 Planning & Design LSC	
Firm:	HDR Engineering Inc. of the Carolinas, Raleigh, NC	
Maximum Engineering Fee:	\$8,000,000.00	
DBE/WBE/SPSF Utilization:	CH Engineering, PLLC	\$240,000.00
	3%	
SPSF Utilization:	Hinde Engineering, Inc.	\$240,000.00
	3%	
DBE/WBE/SPSF Utilization:	Planning Communities, LLC	\$160,000.00
	2%	
SPSF Utilization:	Patriot Transportation Engineering, PLLC	\$240,000.00
	3%	
SPSF Utilization:	Carolina Land Acquisitions, Inc.	\$80,000.00
	1%	
SPSF Utilization:	Ramey Kemp & Associates, Inc.	\$400,000.00
	5%	

Description Of Work:	2016 Planning & Design LSC	
Firm:	Simpson Engineers & Associates, PC, Cary, NC	
Maximum Engineering Fee:	\$5,000,000.00	
DBE/MBE/SPSF Utilization:	100%	

Description Of Work:	2016 Planning & Design LSC	
Firm:	Dewberry Engineers, Inc., Raleigh, NC	
Maximum Engineering Fee:	\$8,000,000.00	
DBE/WBE/SPSF Utilization:	CH Engineering, PLLC	\$400,000.00
	5%	
DBE/MBE/SPSF Utilization:	Davenport	\$400,000.00
	5%	
SPSF Utilization:	EEE Consulting, Inc.	\$80,000.00
	1%	
DBE/WBE/SPSF Utilization:	Falcon Engineering, Inc.	\$240,000.00
	3%	
SPSF Utilization:	Patriot Transportation Engineering, PLLC	\$480,000.00
	6%	
DBE/WBE/SPSF Utilization:	Planning Communities, LLC	\$320,000.00
	4%	
SPSF Utilization:	Southeastern Right of Way, LLC	\$80,000.00
	1%	

Description Of Work:	2016 Planning & Design LSC	
Firm:	Three Oaks Engineering, Inc., Durham, NC	
Maximum Engineering Fee:	\$5,000,000.00	
DBE/WBE/SPSF Utilization:	100%	

Description Of Work:	2016 Planning & Design LSC	
Firm:	Stewart Engineering, Inc., Raleigh, NC	
Maximum Engineering Fee:	\$5,000,000.00	
SPSF Utilization:	100%	

Description Of Work:	2016 Planning & Design LSC	
Firm:	H.W. Lochner, Inc., Raleigh, NC	
Maximum Engineering Fee:	\$8,000,000.00	
DBE/MBE/SPSF Utilization:	Accelerate Engineering, PLLC	\$320,000.00
	4%	
SPSF Utilization:	Axiom Environmental, Inc.	\$320,000.00
	4%	
DBE/WBE/SPSF Utilization:	Ecological Engineering, LLP	\$640,000.00
	8%	
DBE/WBE/SPSF Utilization:	Falcon Engineering, Inc.	\$320,000.00
	4%	
DBE/MBE/SPSF Utilization:	MM/I and Associates, LLC	\$80,000.00
	1%	

DBE/MBE/SPSF Utilization:	Simpson Engineers & Associates, PC 4%	\$320,000.00
SPSF Utilization:	So-Deep US, PC 4%	\$320,000.00
SPSF Utilization:	Sungate Design Group, PA 5%	\$400,000.00
Description Of Work:	2016 Planning & Design LSC	
Firm:	AECOM Technical Services of North Carolina, Inc., Raleigh, NC	
Maximum Engineering Fee:	\$8,000,000.00	
SPSF Utilization:	Summit Design and Engineering Services, PLLC 2.5%	\$200,000.00
SPSF Utilization:	Mattern & Craig, Inc. 1%	\$80,000.00
DBE/WBE/SPSF Utilization:	CH Engineering, PLLC 1.5%	\$120,000.00
Description Of Work:	2016 Planning & Design LSC	
Firm:	STV Engineers, Inc., Charlotte, NC	
Maximum Engineering Fee:	\$8,000,000.00	
DBE/WBE/SPSF Utilization:	Calyx Engineers and Consultants, Inc. 6%	\$480,000.00
DBE/MBE/SPSF Utilization:	TOMEFOG, Inc. 2%	\$160,000.00
Description Of Work:	2016 Planning & Design LSC	
Firm:	VHB Engineering NC, PC, Raleigh, NC	
Maximum Engineering Fee:	\$8,000,000.00	
DBE/WBE/SPSF Utilization:	Falcon Engineering, Inc. 2%	\$160,000.00
SPSF Utilization:	Hinde Engineering, Inc. 3%	\$240,000.00
DBE/SPSF Utilization:	MI Engineering, PLLC 6%	\$480,000.00
DBE/MBE/SPSF Utilization:	Neighborhood Solutions, LLC 1%	\$80,000.00
SPSF Utilization:	So-Deep US, PC 5%	\$400,000.00
SPSF Utilization:	Sungate Design Group, PA 6%	\$480,000.00
SPSF Utilization:	TGS Engineers 6%	\$480,000.00

Description Of Work:	2016 Planning & Design LSC	
Firm:	TGS Engineers, Shelby, NC	
Maximum Engineering Fee:	\$8,000,000.00	
SPSF Utilization:	100%	
Description Of Work:	2016 Planning & Design LSC	
Firm:	Mead & Hunt, Inc., Raleigh, NC	
Maximum Engineering Fee:	\$3,000,000.00	
DBE/MBE/SPSF Utilization:	Davenport	\$390,000.00
	13%	
SPSF Utilization:	EEE Consulting, Inc.	\$120,000.00
	4%	
DBE/MBE/SPSF Utilization:	Neighborhood Solutions, LLC	\$150,000.00
	5%	
Description Of Work:	2016 Planning & Design LSC	
Firm:	RS&H Architects-Engineers-Planners, Inc., Charlotte, NC	
Maximum Engineering Fee:	\$8,000,000.00	
SPSF Utilization:	Carolina Ecosystems, Inc.	\$200,000.00
	2.5%	
DBE/WBE/SPSF Utilization:	Planning Communities, LLC	\$200,000.00
	2.5%	
SPSF Utilization:	So-Deep US, PC	\$200,000.00
	2.5%	
SPSF Utilization:	Angler Environmental	\$160,000.00
	2%	
SPSF Utilization:	Progressive Design Group, Inc.	\$320,000.00
	4%	
SPSF Utilization:	Clearbox Forecast Group, PLLC	\$80,000.00
	1%	
Description Of Work:	2016 Planning & Design LSC	
Firm:	DRMP, Inc., Charlotte, NC	
Maximum Engineering Fee:	\$3,000,000.00	
SPSF Utilization:	Hinde Engineering, Inc.	\$60,000.00
	2%	
SPSF Utilization:	Patriot Transportation Engineering, PLLC	\$150,000.00
	5%	
DBE/WBE/SPSF Utilization:	Planning Communities, LLC	\$210,000.00
	7%	
SPSF Utilization:	SpanishSpeaking	\$30,000.00
	1%	

SPSF Utilization:	Sungate Design Group, PA 6%	\$180,000.00
-------------------	--------------------------------	--------------

DBE/MBE/SPSF Utilization:	Tech Engineering Group, PLLC 2%	\$60,000.00
---------------------------	------------------------------------	-------------

Description Of Work:	2016 Planning & Design LSC	
Firm:	Mott MacDonald I&E, LLC, Fuquay-Varina, NC	
Maximum Engineering Fee:	\$5,000,000.00	

DBE/WBE/SPSF Utilization:	Ecological Engineering, LLP 5%	\$250,000.00
---------------------------	-----------------------------------	--------------

DBE/WBE/SPSF Utilization:	Wetherill Engineering, Inc. 2%	\$100,000.00
---------------------------	-----------------------------------	--------------

DBE/MBE/SPSF Utilization:	Simpson Engineers & Associates, PC 2%	\$100,000.00
---------------------------	--	--------------

DBE/MBE/SPSF Utilization:	Accelerate Engineering, PLLC 1%	\$50,000.00
---------------------------	------------------------------------	-------------

DBE/WBE/SPSF Utilization:	Three Oaks Engineering, Inc. 10%	\$500,000.00
---------------------------	-------------------------------------	--------------

Description Of Work:	2016 Planning & Design LSC	
Firm:	Calyx Engineers and Consultants, Inc., Cary, NC	
Maximum Engineering Fee:	\$8,000,000.00	
DBE/WBE/SPSF Utilization:	100%	

Description Of Work:	2016 Planning & Design LSC	
Firm:	WSP   Parsons Brinckerhoff, Raleigh, NC	
Maximum Engineering Fee:	\$5,000,000.00	
SPSF Utilization:	Carolina Ecosystems, Inc. 3%	\$150,000.00

SPSF Utilization:	Utility Coordination Consultants 3%	\$150,000.00
-------------------	--	--------------

SPSF Utilization:	EEE Consulting, Inc. 2%	\$100,000.00
-------------------	----------------------------	--------------

DBE/WBE/SPSF Utilization:	Morton & Morton Design Services, PLLC 1%	\$50,000.00
---------------------------	---	-------------

Description Of Work:	2016 Planning & Design LSC	
Firm:	Moffatt & Nichol, Inc., Raleigh, NC	
Maximum Engineering Fee:	\$5,000,000.00	
SPSF Utilization:	Clearbox Forecast Group, PLLC	\$50,000.00
	1%	
DBE/MBE/SPSF Utilization:	Davenport	\$225,000.00
	4.5%	
SPSF Utilization:	Joyner Keeny, PLLC	\$125,000.00
	2.5%	
DBE/WBE/SPSF Utilization:	Falcon Engineering, Inc.	\$100,000.00
	2%	
DBE/MBE/SPSF Utilization:	Vistabution, LLC	\$200,000.00
	4%	

Description Of Work:	2016 Planning & Design LSC	
Firm:	Summit Design and Engineering Services, PLLC, Hillsborough, NC	
Maximum Engineering Fee:	\$3,000,000.00	
SPSF Utilization:	100%	

Description Of Work:	2016 Planning & Design LSC	
Firm:	Stantec Consulting Services, Inc., Raleigh, NC	
Maximum Engineering Fee:	\$5,000,000.00	
DBE/WBE/SPSF Utilization:	Falcon Engineering, Inc.	\$250,000.00
	5%	
DBE/MBE/SPSF Utilization:	Mekuria Engineering, Inc.	\$150,000.00
	3%	
SPSF Utilization:	Patriot Transportation Engineering, PLLC	\$100,000.00
	2%	
SPSF Utilization:	So-Deep US, PC	\$100,000.00
	2%	

Description Of Work:	2016 Planning & Design LSC	
Firm:	Johnson, Mirmiran & Thompson, Inc., Virginia Beach, VA	
Maximum Engineering Fee:	\$3,000,000.00	
DBE/SPSF Utilization:	MI Engineering, PLLC	\$360,000.00
	12%	
SPSF Utilization:	Ramey Kemp & Associates, Inc.	\$120,000.00
	4%	
SPSF Utilization:	SpanishSpeaking	\$60,000.00
	2%	

DBE/MBE/SPSF Utilization:	Neighborhood Solutions, LLC 2%	\$60,000.00
DBE/MBE/SPSF Utilization:	Baseline Mobility Group, Inc. 2%	\$60,000.00
SPSF Utilization:	Zapata-LJB, PLLC 4%	\$120,000.00
Description Of Work:	2016 Planning & Design LSC	
Firm:	Kimley-Horn & Associates, Inc., Raleigh, NC	
Maximum Engineering Fee:	\$8,000,000.00	
DBE/WBE/SPSF Utilization:	CH Engineering, PLLC 10%	\$800,000.00
DBE/WBE/SPSF Utilization:	Falcon Engineering, Inc. 5%	\$400,000.00
DBE/WBE/SPSF Utilization:	Wetherill Engineering, Inc. 8%	\$640,000.00
SPSF Utilization:	Patriot Transportation Engineering, PLLC 4%	\$320,000.00
DBE/MBE/SPSF Utilization:	Neighborhood Solutions, LLC 2%	\$160,000.00
SPSF Utilization:	SpanishSpeaking 1%	\$80,000.00

**Project Development & Environmental Analysis – Natural Environmental**

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

**STATEWIDE**

Description of Work:	2015 Natural Environmental Services LSC	
Firm:	Three Oaks Engineering, Inc., Durham, NC	
Original Engineering Fee:	\$1,000,000.00	
Previous Supplemental Fee:	\$1,000,000.00	
Supplemental Fee:	\$1,000,000.00	
DBE/WBE/SPSF Utilization:	100%	

Description of Work:	2015 Natural Environmental Services LSC
Firm:	McCormick Taylor, Inc., Raleigh, NC
Original Engineering Fee:	\$300,000.00
Supplemental Fee:	\$600,000.00
SPSF Utilization :	Alderman Environmental Services, Inc. \$90,000.00 15%
SPSF Utilization :	Axiom Environmental, Inc. \$30,000.00 5%

Description of Work:	2015 Natural Environmental Services LSC
Firm:	Dr. J.H. Carter III & Associates, Inc., Southern Pines, NC
Original Engineering Fee:	\$600,000.00
Supplemental Fee:	\$300,000.00
SPSF Utilization:	100%

Description of Work:	2015 Natural Environmental Services LSC
Firm:	Rummel, Klepper & Kahl, LLP, Raleigh, NC
Original Engineering Fee:	\$1,000,000.00
Previous Supplemental Fee:	\$ 600,000.00
Supplemental Fee:	\$1,000,000.00
DBE/WBE/SPSF Utilization:	Three Oaks Engineering, Inc. \$20,000.00 2%

**Project Development & Environmental Analysis – Project Planning**

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

**STATEWIDE**

Description of Work:	2014 Planning and Design LSC
Firm:	RS&H Architects-Engineers-Planners, Charlotte, NC
Original Engineering Fee:	\$1,000,000.00
Previous Supplemental Fee:	\$6,000,000.00
Supplemental Fee:	\$1,500,000.00
SPSF Utilization:	Joyner Keeney, PLLC \$37,500.00 2.5%
SPSF Utilization:	Carolina Ecosystems, Inc. \$37,500.00 2.5%
SPSF Utilization:	Progressive Design Group, Inc. \$37,500.00 2.5%
SPSF Utilization:	Utility Coordination Consultants \$37,500.00 2.5%

Description of Work: 2015 Planning and Design LSC  
Firm: Davenport, Winston-Salem, NC  
Original Engineering Fee: \$1,500,000.00  
Supplemental Fee: \$1,500,000.00  
DBE/MBE/SPSF Utilization: 100%

**DIVISION 12**

Project: 37944.1.1 (R-2307) Lincoln, Catawba, and Iredell Counties  
NC 150 from relocated NC 16 to I-77  
Scope of Work: Preparation of environmental documents and preliminary designs  
Estimated Construction Cost: \$203,620,000.00  
Firm: Stantec Consulting Services, Inc. Raleigh, NC  
Original Engineering Fee: \$1,200,000.00  
Previous Supplemental Fee: \$ 595,000.00  
Supplemental Fee: \$ 270,000.00  
Supplemental Work: Post-hearing work, additional design and traffic analysis, merger meetings and ongoing agency coordination  
SPSF Utilization: 0%

**NCDOT December 2016 Board of Transportation Agenda**

According to G.S. 143B-350(g) the Board is requested to concur with staff recommendations and delegate authority to the Secretary to approve funds for secondary road improvement projects.

**Secondary Road Improvement Projects (Highway and Trust Funds)**

County	SR No./ Road Name	Description	Amount
Guilford Div. 7	SR 3617 Mabel Lane	GDB&P. Increase Funds. WBS 7C.041184	\$42.88
Guilford Div. 7	SR 2795 Huffine Farm Road	GDB&P. Increase Funds. WBS 7C.041188	\$337,413.37
Guilford Div. 7	SR 2761 Falcon Road	GDB&P. Increase Funds. WBS 7C.041209	\$38,713.05
Guilford Div. 7	SR 3391 Connie Road	GDB&P. Increase Funds. WBS 7C.041212	\$111,410.74
Guilford Div. 7	SR 2945 Carmon Loop	GDB&P. Increase Funds. WBS 7C.041213	\$85,420.31
Guilford Div. 7	SR 2125 Rhondan Drive	GDB&P. Increase Funds. WBS 7C.041228	\$60,295.40
Guilford Div. 7	SR 3366 Canova Road	GDB&P. Increase Funds. WBS 7C.041243	\$42,351.84
Guilford Div. 7	SR 3365 Bali Road	GDB&P. Increase Funds. WBS 7C.041245	\$5,015.00
Guilford Div. 7	SR 2316 Strader Road	GDB&P. Increase Funds. WBS 7C.041250	\$416,214.22

**Deletions**

County	SR No.	Reason	Amount
Guilford Div. 7	SR 1863 Bending Road	GDB&P Unavailable Right of Way. WBS 7C.041129	-\$160,644.30
Guilford Div. 7	SR 2195 Banning Road	GDB&P. Unavailable Right of Way. WBS 7C.041222	-\$99,456.63
Guilford Div. 7	SR 2043 Hutchens Road	GDB&P. Unavailable Right of Way. WBS 7C.041223	-\$73,062.13

**NCDOT December 2016 Board of Transportation Agenda**

According to G.S. 143B-350(g) the Board is requested to concur with staff recommendations and delegate authority to the Secretary to approve funds for secondary road improvement projects.

**Secondary Road Improvement Projects (Highway and Trust Funds)**

**Deletions**

<b>County</b>	<b>SR No.</b>	<b>Reason</b>	<b>Amount</b>
Guilford Div. 7	SR 2116 Draper Road	GDB&P. Unavailable Right of Way. WBS 7C.041226	-\$165,020.99
Guilford Div. 7	SR 1129 Groomtown Road	GDB&P. Unavailable Right of Way. WBS 7C.041239	-\$49,951.20
Guilford Div. 7	SR 1350 Whites Road	GDB&P. Unavailable Right of Way. WBS 7C.041242	-\$60,872.04

**December 2016 Item E Summary:**

<b>9</b>	<b>Projects to Establish Funds</b>	<b>Amount:</b>	<b>\$1,096,876.81</b>
<b>6</b>	<b>Projects to Delete</b>	<b>Amount:</b>	<b>-\$609,007.29</b>

## NCDOT December 2016 Board of Transportation Agenda

### Road Additions:

County	Pet. No.	Length (Miles)	Description	Date of Report
<b>Division 3</b>				
New Hanover	51220		<b>Stones Edge Subdivision</b>	9/20/16
		0.40	Stones Edge Loop	
		0.09	Briercrest Drive, SR 2029 Ext.	
		0.03	Wynstone Court	
Sampson	51221		<b>McLamb Road Subdivision</b>	9/15/16
		0.23	Rossie Lane	
<b>Division 4</b>				
Johnston	51222		<b>The Gardens at Flowers Plantation Subdivision</b>	5/16/16
		0.05	Greenbriar Court	
Nash	51223		<b>Field Stream Subdivision</b>	9/21/16
		0.05	Fleming Court	
<b>Division 5</b>				
Wake	51224		<b>Branston Subdivision</b>	10/14/16
		0.49	Branston Way	
		0.19	Bleasdale Court	
		0.05	Callowhill Court	
<b>Division 7</b>				
Alamance	51225		<b>Timberlake Subdivision</b>	9/6/16
		0.10	Ervin Newlin Drive	
		0.11	Peggy's Way	
		0.12	Fall Leaves Court	
		0.21	South Spring Flowers Drive	
		0.09	North Spring Flowers Drive	
Guilford	51226		<b>Stonebrook Farm Subdivision</b>	9/30/16
		0.07	Manorwood Road, SR 3644 Ext.	
Rockingham	51227		<b>Sitting Rock Farms Subdivision</b>	8/8/16
		0.20	Lord Godolphin's Place	
<b>Division 8</b>				
Chatham	51228		<b>Briar Chapel Subdivision</b>	9/29/16
		0.37	Bennet Mountain Trace	
		0.06	Saxaphaw Run	
		0.14	Dark Forest Drive	
		0.44	Tobacco Farm Way	
		0.08	Greenleaf Drive	
		0.10	Tarwick Avenue	
		0.25	Cliffdale Road	
		0.63	Wildwind Drive	

December 1, 2016

## NCDOT December 2016 Board of Transportation Agenda

### Road Additions:

County	Pet. No.	Length (Miles)	Description	Date of Report
<b>Division 8</b>				
Chatham	51228		<b>Briar Chapel Subdivision</b>	9/29/16
		0.14	Treywood Lane	
		0.15	Sagebrush Road	
		0.18	Heatherwood Drive	
		0.13	Copper Lantern Drive	
Hoke	51229		<b>Mitchell's Landing Subdivision</b>	7/27/16
		0.11	Maria Drive, SR 1777 Ext.	
		0.05	Mitzie Court	
		0.17	Gertie Court	
<b>Division 9</b>				
Davidson	51230		<b>Mallard Landing Subdivision</b>	9/27/16
		0.41	Mallard Landing Blvd, SR 3407 Ext.	
		0.15	Plantation Village Drive	
		0.06	Sweetwater Court	
Forsyth	51231		<b>Trotters Ridge Subdivision</b>	11/3/16
		0.29	Trotters Ridge Lane	
		0.11	Sun Meadows Drive, SR 4258 Ext.	
<b>Division 10</b>				
Mecklenburg	51232			10/13/16
		0.41	Potts Street	
		0.27	Sloan Street	
		0.92	Beatty Street	
<b>Division 11</b>				
Surry	51233		<b>Hickory Creek Subdivision</b>	10/12/16
		0.19	Hickory Hill Road	
<b>Division 12</b>				
Iredell	51234		<b>Autumn Grove Subdivision</b>	9/21/16
		0.23	Early Frost Lane	
		0.10	Autumn Grove Lane	
Iredell	51235		<b>Davidson Downs Subdivision</b>	3/21/16
		0.03	Devonshire Court	
Iredell	51236		<b>Tuskarora Point Subdivision</b>	10/5/16
		0.19	Tuskarora Point Lane	

## NCDOT December 2016 Board of Transportation Agenda

### Deletions:

County	Pet. No.	Length (Miles)	Description	Date of Report
<b>Division 4</b>				
Nash	51237	0.05	Portion of SR 1749 Daughtridge Road	8/15/16
<b>Division 5</b>				
Wake	51238	0.33	Portion of SR 1397 Herbert Adkins Road	10/27/16
Wake	51239	0.16	Portion of SR 1762 Wilson Road	10/20/16
Wake	51240	0.07	Portion of SR 1763 Wilson Road	10/21/16
<b>Division 6</b>				
Robeson	51241	0.18	Portion of SR 2413 Page Street	9/30/16
<b>Division 10</b>				
	51242	1.03	SR 2385 Stratton Farms Road	9/30/16

### Corrections:

**Division 5 – Wake County** – Petition 51188, Scarlett Bell Drive was added on August 2016 BOT Agenda. It should have been listed as Scarlet Bell Drive

**Division 13 – Buncombe County** – Petition 51197, Bee Tree Way was added on August 2016 BOT Agenda. It should have been listed as Bee Line Drive.

**Summary:**    **Number of Roads Petitioned for Addition – 44**  
**Number of Roads Petitioned for Abandonment – 6**

**NCDOT DECEMBER 2016 BOARD OF TRANSPORTATION AGENDA**  
**Funds Request**  
**Division-wide Small Construction, Statewide Contingency,**  
**Public Access, Economic Development**

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

County	Description	Type	Amount
Div 1 Hertford	Funding to assist with design of new airport terminal at Tri-County Airport, serving Bertie, Hertford, and Northampton Counties  WBS 45879	Small Construction  <hr/> TOTAL	\$12,500.00  <hr/> \$12,500.00
Div 2 Craven	City of New Bern – Intersection improvements and signal modifications at Taberna Way and US-70 Other funding: \$10,000 (City) WBS 49025	Small Construction  <hr/> TOTAL	\$100,000.00  <hr/> \$100,000.00
Div 3 Duplin	Install a right turn lane on eastbound NC-24 Bus (Kenansville Hwy) and a right turn lane on northbound SR 1900 (Lanefield Rd) Other funding: \$25,000 (Safety) WBS 46908	Contingency  <hr/> TOTAL	\$105,000.00  <hr/> \$105,000.00
Div 4 Johnston	Install traffic signal at the intersection of SR 1555 (Barber Mill Rd) and SR 1010 (Cleveland Rd)  WBS 80030	Small Construction  <hr/> TOTAL	\$75,000.00  <hr/> \$75,000.00
Div 4 Nash	Provide exit signing with exit numbers at three interchanges (US-64Alt, NC-581, and SR 1306) along US-64  WBS 80029	Small Construction  <hr/> TOTAL	\$75,000.00  <hr/> \$75,000.00
Div 6 Robeson	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 WBS 46913	Public Access  <hr/> TOTAL	\$25,000.00  <hr/> \$25,000.00

**NCDOT DECEMBER 2016 BOARD OF TRANSPORTATION AGENDA**  
**Funds Request**  
**Division-wide Small Construction, Statewide Contingency,**  
**Public Access, Economic Development**

<b>County</b>	<b>Description</b>	<b>Type</b>	<b>Amount</b>
Div 7 Guilford Rockingham Caswell	Feasibility Study to upgrade to interstate standards on US-29 from SR 2565 (Hicone Rd) interchange in Guilford County through Rockingham and Caswell counties to the Virginia State Line WBS 46909	Contingency <hr/> TOTAL	\$250,000.00 <hr/> \$250,000.00
Div 9 Forsyth	City of Winston-Salem – Relocate existing traffic signal cabinets in downtown from metal poles to concrete bases WBS 45866	Contingency <hr/> TOTAL	\$250,000.00 <hr/> \$250,000.00
Div 9 Forsyth	City of Winston-Salem – Drainage improvements on NC-150 (Peters Creek Parkway) at Academy WBS 45991	Small Construction <hr/> TOTAL	\$90,000.00 <hr/> \$90,000.00
Div 9 Rowan	Widen and strengthen SR 1242 (Chapel St) from new Kimball Rd extension to Bostian Rd WBS 45874	Contingency Small Construction <hr/> TOTAL	\$57,000.00 \$57,000.00 <hr/> \$114,000.00

**Deletions:**

Div 11, Caldwell County – WBS 44594 was established (10/15) to bring Washboard Lane up to minimum state standards; ROW unavailable

**Correction:**

WBS 80028, included on the November 2016 Agenda for installation of a turn lane on SR 1641 approximately 0.5 mile from the intersection of SR 1641 and US-158 and an access road, approximately 1,700 ft., from SR 1641 to Halifax Community College, was listed as Wilson County but should have been Halifax County

**NCDOT DECEMBER 2016 BOARD OF TRANSPORTATION AGENDA**  
**Funds Request**  
**Division-wide Small Construction, Statewide Contingency,**  
**Public Access, Economic Development**

<b>Summary:</b>	<b>Number of Projects</b>	<b>10</b>
	<b>Number of Divisions</b>	<b>7</b>
	<b>Small Construction Commitment</b>	<b>\$409,500.00</b>
	<b>Public Access Commitment</b>	<b>\$25,000.00</b>
	<b>Contingency Commitment</b>	<b>\$662,000.00</b>
	<b>Economic Development</b>	<b>\$0.00</b>
	<b>TOTAL</b>	<b>\$1,096,500.00</b>

**NCDOT December 2016 Board of Transportation Agenda**

**Public Transportation Program**

<b>Town/County Division</b>	<b>Project Description</b>	<b>Estimated Cost</b>
---------------------------------	----------------------------	---------------------------

There will be no items presented for approval at the December 1, 2016 Board of Transportation meeting.

**ITEM I-1 SUMMARY – NO PROJECTS**

*These items are for informational purposes only and subject to future NC Board of Transportation approval. It is anticipated that these items will be considered for NC Board of Transportation approval in 30 days.*

**ADDITIONS to the Transit 2016-2025 STIP**

STIP #	Transit Partner	DESCRIPTION	match	FUND	FY16 (000)	FY17 (000)	FY18 (000)	FY19 (000)	FY20 (000)	FY21 (000)	FY22 (000)
TG-6179	City of Salisbury	AVL System	FBUS	5339	224						
			Local	L	56						
TD-5279	City of Greensboro	Renovation of ticketing, call center, and waiting areas of the J. Douglas Galyon Bus Depot	FBUS	5339		960					
			Local	L		240					

**MODIFICATIONS to the Transit 2016-2025 STIP**

STIP #	Transit Partner	DESCRIPTION	match	FUND	FY16 (000)	FY17 (000)	FY18 (000)	FY19 (000)	FY20 (000)	FY21 (000)	FY22 (000)	
TO-5149	Iredell County	Operating Assistance for the Iredell County Area Transportation System (ICATS)	FUZ	5307	200	210	210	210	210			
			Local	L	200	210	210	210	210			
TO-5135	City of Salisbury	Operating	FUZ	5307	285	285	285	285	285	285	285	
			State	SMAP	215	215	215	215	215	215	215	
			Local	L	160	160	160	160	160	160	160	
		CONTINUED			<b>FY23 (000)</b>							
			FUZ	5307	285							
			State	SMAP	215							
			Local	L	160							
TG-5260	City of Salisbury	Routine Capital – ADA Services	FUZ	5307	63	63	63	63	63	63	63	
			Local	L	16	16	16	16	16	16	16	
		CONTINUED			<b>FY23 (000)</b>							
			FUZ	5307	63							
			Local	L	16							
TG-5232	City of Salisbury	Preventive Maintenance – Bus Facilities	FUZ	5307	334	334	334	334	334	334	334	
			Local	L	83	83	83	83	83	83	83	
		CONTINUED			<b>FY23 (000)</b>							
			FUZ	5307	334							
			Local	L	83							

*These items are for informational purposes only and subject to future NC Board of Transportation approval. It is anticipated that these items will be considered for NC Board of Transportation approval in 30 days.*

TG-5233	City of Salisbury	Bus Stop Shelters, Benches, Shop Equipment, Spare Parts, Engines, Farebox, Service Vehicles, etc.	FUZ	5307	224	224	224	224	224	224	224
			Local	L	56	56	56	56	56	56	56
		CONTINUED			FY23 (000)						
			FUZ	5307	224						
			Local	L	56						
TS-5133	City of Salisbury	Safety & Security Min. 1% set aside	FUZ	5307	7	7	7	7	7	7	7
		CONTINUED			FY23 (000)						
			FUZ	5307	7						
			Local	L	7						
TP-5150	City of Salisbury	Planning Assistance - 5303	FMPL	5303	30	30	30	30	30	30	30
			State	S	4	4	4	4	4	4	4
			Local	L	4	4	4	4	4	4	4
		CONTINUED			FY23 (000)						
			FUZ	5307	30						
			State	S	4						
			Local	L	4						
TA-5181	City of Salisbury	Replacement Buses	FUZ	5307	1464	1464	1464	1464			
			State	S	183	183	183	183			
			Local	L	183	183	183	183			
TO-5139	City of Salisbury	Operating – Free Fare	FUZ	CMAQ	34	34	34	34	34	34	34
			Local	L	8	8	8	8	8	8	8
		CONTINUED			FY23 (000)						
			FUZ	CMAQ	34						
			Local	L	8						
TA-5182	City of Salisbury	Expansion Vehicle	FBUS	5339	44	44					
			Local	L	11	11					

Item I-1A, 12 Projects, Total Federal/State funds \$18,468,000

**NCDOT December 2016 Board of Transportation Agenda  
Rail Program**

<b>Town/County Division</b>	<b>Project Description</b>	<b>Estimated Cost</b>
Division 1 Camden County	The Rail Division requests Board reallocation of a portion of Freight Rail & Rail Crossing Safety Improvement (FRRCSI) Funds from Rail Resources of North Carolina (due to lack of industry commitment) to the improvement of an at-grade railroad crossing by installing a concrete tub surface to replace the existing surface on the Chesapeake & Albemarle Railroad (CA). The crossing to be improved is 465 371V (NC 343). CA will provide the necessary labor to install the materials. The NCDOT Highway Division will provide traffic control. The total estimated cost to the Rail Division is \$44,000. FRRCSI ID: F16249	\$44,000
Division 1 Perquimans County	The Rail Division requests Board reallocation of a portion of Freight Rail & Rail Crossing Safety Improvement (FRRCSI) funds from Norfolk Southern Transmontaigne – Greensboro (due to lack of industry commitment) to the improvement of an at-grade railroad crossing by installing a rail seal surface to replace the existing surface on the Chesapeake & Albemarle Railroad (CA). The crossing to be improved is 465 303U (NC 37 Main Street-Winfall). CA will provide the necessary labor to install the materials. The NCDOT Highway Division will provide asphalt and traffic control. The total estimated cost to the Rail Division is \$36,000. FRRCSI ID: F14259	\$36,000
Division 1 Perquimans County	The Rail Division requests Board reallocation of a portion of Freight Rail & Rail Crossing Safety Improvement (FRRCSI) funds from Norfolk Southern Transmontaigne – Selma (due to lack of industry commitment) to the improvement of an at-grade railroad crossing by installing a rail seal surface to replace the existing surface on the Chesapeake & Albemarle Railroad (CA). The crossing to be improved is 465 298A (SR 1101 E. Bear Swamp Drive). CA will provide the necessary labor to install the materials. The NCDOT Highway Division will provide asphalt and traffic control. The total estimated cost to the Rail Division is \$25,000. FRRCSI ID: F14260	\$25,000

<p>Division 1 Washington County</p>	<p>The Rail Division requests Board reallocation of a portion of Freight Rail &amp; Rail Crossing Safety Improvement (FRRCSI) funds from Norfolk Southern Transmontaigne – Greensboro (due to lack of industry commitment) to the improvement of an at-grade railroad crossing by installing a concrete tub surface to replace the existing surface on the Carolina Coastal Railway (CLNA). The crossing to be improved is 466 192H (SR 1106 Morrattock Road). CLNA will provide the necessary labor to install the materials. The NCDOT Highway Division will provide traffic control. The total estimated cost to the Rail Division is \$32,000. FRRCSI ID: F14261</p>	<p>\$32,000</p>
<p>Division 2 Greene County</p>	<p>The Rail Division requests Board reallocation of a portion of Freight Rail &amp; Rail Crossing Safety Improvement (FRRCSI) funds from Norfolk Southern Agrium (due to lack of industry commitment) to the improvement of an at-grade railroad crossing by installing a rail seal surface to replace the existing surface on the Carolina Coastal Railway (CLNA). The crossing to be improved is 465 547D (SR 1301 Friendship Church Road). CLNA will provide the necessary labor to install the materials. The NCDOT Highway Division will provide asphalt and traffic control. The total estimated cost to the Rail Division is \$24,000. FRRCSI ID: F14262</p>	<p>\$24,000</p>
<p>Division 2 Greene County</p>	<p>The Rail Division requests Board reallocation of a portion of Freight Rail &amp; Rail Crossing Safety Improvement (FRRCSI) funds from Project Blue Jay (due to lack of industry commitment) to the improvement of an at-grade railroad crossing by installing a rail seal surface to replace the existing surface on the Carolina Coastal Railway (CLNA). The crossing to be improved is 465 548K (SR 1318 Lewis Store Road). CLNA will provide the necessary labor to install the materials. The NCDOT Highway Division will provide asphalt and traffic control. The total estimated cost to the Rail Division is \$24,000. FRRCSI ID: F16250</p>	<p>\$24,000</p>
<p>Division 2 Greene County</p>	<p>The Rail Division requests Board reallocation of a portion of Freight Rail &amp; Rail Crossing Safety Improvement (FRRCSI) funds from Norfolk Southern Transmontaigne – Selma (due to lack of industry commitment) to the improvement of an at-grade railroad crossing by installing a rail seal surface to replace the existing surface on the Carolina Coastal Railway (CLNA). The crossing to be improved is 465 564U (NC 91 Wilson Street). CLNA will provide the necessary labor to install the materials. The NCDOT Highway Division will provide asphalt and traffic control. The total estimated cost to the Rail Division is \$36,000. FRRCSI ID: F14263</p>	<p>\$36,000</p>

<p>Division 2 Greene County</p>	<p>The Rail Division requests Board reallocation of a portion of Freight Rail &amp; Rail Crossing Safety Improvement (FRRCSI) funds from Norfolk Southern Luckey Logistics (due to lack of industry commitment) to the improvement of an at-grade railroad crossing by installing a rail seal surface to replace the existing surface on the Carolina Coastal Railway (CLNA). The crossing to be improved is 465 540F (US 258 Main Street). CLNA will provide the necessary labor to install the materials. The NCDOT Highway Division will provide asphalt and traffic control. The total estimated cost to the Rail Division is \$36,000. FRRCSI ID: F14264</p>	<p>\$36,000</p>
<p>Division 2 Pitt County</p>	<p>The Rail Division requests Board reallocation of a portion of Freight Rail &amp; Rail Crossing Safety Improvement (FRRCSI) funds from Norfolk Southern Agrium and Norfolk Southern Luckey Logistics (due to lack of industry commitment) to the improvement of an at-grade railroad crossing by installing a rail seal surface to replace the existing surface on the Carolina Coastal Railway (CLNA). The crossing to be improved 465 527S (SR 1217 Askew Road). CLNA will provide the necessary labor to install the materials. The NCDOT Highway Division will provide asphalt and traffic control. The total estimated cost to the Rail Division is \$24,000. FRRCSI ID: F14265</p>	<p>\$24,000</p>
<p>Division 2 Pitt County</p>	<p>The Rail Division requests Board reallocation of a portion of Freight Rail &amp; Rail Crossing Safety Improvement (FRRCSI) funds from Project Blue Jay and Project Apex (due to lack of industry commitment) to the improvement of an at-grade railroad crossing by installing a concrete tub surface to replace the existing surface on the Carolina Coastal Railway (CLNA). The crossing to be improved is 465 495N (SR 1702 Evans Street). CLNA will provide the necessary labor to install the materials. The NCDOT Highway Division will provide traffic control. The total estimated cost to the Rail Division is \$160,000. FRRCSI ID: F16251 &amp; F17210</p>	<p>\$160,000</p>
<p>Division 2 Pitt County</p>	<p>The Rail Division requests Board reallocation of a portion of Freight Rail &amp; Rail Crossing Safety Improvement (FRRCSI) funds from Norfolk Southern Transmontaigne - Selma (due to lack of industry commitment) to the improvement of an at-grade railroad crossing by installing a rail seal surface to replace the existing surface on the Carolina Coastal Railway (CLNA). The crossing to be improved is 465 523P (SR 1208 Kinsaul Willoughby Road). CLNA will provide the necessary labor to install the materials. The NCDOT Highway Division will provide asphalt and traffic control. The total estimated cost to the Rail Division is \$24,000. FRRCSI ID: F14266</p>	<p>\$24,000</p>

Division 2 Pitt County	The Rail Division requests Board reallocation of a portion of Freight Rail & Rail Crossing Safety Improvement (FRRCSI) funds from Norfolk Southern Transmontaigne - Selma (due to lack of industry commitment) to the improvement of an at-grade railroad crossing by installing a rail seal surface to replace the existing surface on the Carolina Coastal Railway (CLNA). The crossing to be improved is 465 525D (SR 1206 Bellarthur Road). CLNA will provide the necessary labor to install the materials. The NCDOT Highway Division will provide asphalt and traffic control. The total estimated cost to the Rail Division is \$30,000. FRRCSI ID: F14267	\$30,000
Division 2 Pitt County	The Rail Division requests Board reallocation of a portion of Freight Rail & Rail Crossing Safety Improvement (FRRCSI) funds from Norfolk Southern Transmontaigne – Greensboro (due to lack of industry commitment) to the improvement of an at-grade railroad crossing by installing a rail seal surface to replace the existing surface on the Carolina Coastal Railway (CLNA). The crossing to be improved is 465 488D (SR 1704 14th Street). CLNA will provide the necessary labor to install the materials. The NCDOT Highway Division will provide asphalt and traffic control. The total estimated cost to the Rail Division is \$54,000. FRRCSI ID: F14268	\$54,000
Division 2 Pitt County	The Rail Division requests Board reallocation of a portion of Freight Rail & Rail Crossing Safety Improvement (FRRCSI) funds from Project Apex (due to lack of industry commitment) to the improvement of an at-grade railroad crossing by installing a rail seal surface to replace the existing surface on the Carolina Coastal Railway (CLNA). The crossing to be improved is 465 530A (SR 1218 Chinquapin Road). CLNA will provide the necessary labor to install the materials. The NCDOT Highway Division will provide the asphalt and traffic control. The total estimated cost to the Rail Division is \$24,000. FRRCSI ID: F16252	\$24,000
Division 4 Nash County	The Rail Division requests Board reallocation of a portion of Freight Rail & Rail Crossing Safety Improvement (FRRCSI) funds from Norfolk Southern Luckey Logistics (due to lack of industry commitment) to the improvement of an at-grade railroad crossing by installing a rail seal surface to replace the existing surface on the Carolina Coastal Railway (CLNA). The crossing to be improved is 626 221J (SR 1603 Old Carriage Road). CLNA will provide the necessary labor to install the materials. The NCDOT Highway Division will provide asphalt and traffic control. The total estimated cost to the Rail Division is \$24,000. FRRCSI ID: F14269	\$24,000

<p>Division 4 Wilson County</p>	<p>The Rail Division requests Board reallocation of a portion of Freight Rail &amp; Rail Crossing Safety Improvement (FRRCSI) funds from Norfolk Southern Transmontaigne - Selma (due to lack of industry commitment) to the improvement of an at-grade railroad crossing by installing a rail seal surface to replace the existing surface on the Carolina Coastal Railway (CLNA). The crossing to be improved is 465 578C (SR 1683 Saratoga Road). CLNA will provide the necessary labor to install the materials. The NCDOT Highway Division will provide asphalt and traffic control. The total estimated cost to the Rail Division is \$42,000. FRRCSI ID: F14270</p>	<p>\$42,000</p>
<p>Division 6 Robeson County</p>	<p>The Rail Division requests Board reallocation of a portion of Freight Rail &amp; Rail Crossing Safety Improvement (FRRCSI) funds from Project Apex (due to lack of industry commitment) to the improvement of an at-grade railroad crossing by installing a rail seal surface to replace the existing surface on the Red Springs &amp; Northern Railroad (RSNR). The crossing to be improved is 629 901P (SR 1712 Third Street). RSNR will provide the necessary labor to install the materials. The NCDOT Highway Division will provide asphalt and traffic control. The total estimated cost to the Rail Division is \$30,000. FRRCSI ID: F16253</p>	<p>\$30,000</p>
<p>Division 8 Montgomery County</p>	<p>The Rail Division requests Board reallocation of a portion of Freight Rail &amp; Rail Crossing Safety Improvement (FRRCSI) funds from Rail Resources of North Carolina (due to lack of industry commitment) to the improvement of an at-grade railroad crossing by installing a rail seal surface to replace the existing surface on the Aberdeen Carolina &amp; Western Railway (ACWR). The crossing to be improved is 728 909S (SR 1129 McKinnon Road). ACWR will provide the necessary labor to install the materials. The NCDOT Highway Division will provide asphalt and traffic control. The total estimated cost to the Rail Division is \$25,000. FRRCSI ID: F16254</p>	<p>\$25,000</p>
<p>Division 9 Forsyth County</p>	<p>The Rail Division requests Board reallocation of a portion of Freight Rail &amp; Rail Crossing Safety Improvement (FRRCSI) funds from Project Apex (due to lack of industry commitment) to the improvement of an at-grade railroad crossing by installing a rail seal surface to replace the existing surface on the Yadkin Valley Railroad (YVRR). The crossing to be improved is 721 783N (SR 3936 Hollyberry Lane). YVRR will provide the necessary labor to install the materials. The NCDOT Highway Division will provide asphalt and traffic control. The total estimated cost to the Rail Division is \$25,000. FRRCSI ID: F16255</p>	<p>\$25,000</p>

<p>Division 12 Alexander County</p>	<p>The Rail Division requests Board reallocation of a portion of Freight Rail &amp; Rail Crossing Safety Improvement (FRRCSI) funds from Rail Resources of North Carolina (due to lack of industry commitment) to the improvement of an at-grade railroad crossing by installing a rail seal surface to replace the existing surface on the Alexander Railroad (ARC). The crossing to be improved is 864 363E (SR 1422 White Plains Road). ARC will provide the necessary labor to install the materials. The NCDOT Highway Division will provide asphalt and traffic control. The total estimated cost to the Rail Division is \$32,000. FRRCSI ID: F16256</p>	<p>\$32,000</p>
<p>Division 13 Buncombe County</p>	<p>The Rail Division requests Board reallocation of a portion of Freight Rail &amp; Rail Crossing Safety Improvement (FRRCSI) funds from Rail Resources of North Carolina (due to lack of industry commitment) to the improvement of an at-grade railroad crossing by installing a rail seal surface to replace the existing surface on the Craggy Mountain Railroad (CMR). The crossing to be improved is 720 460P (SR 1695 Woodfin Avenue). CMR will provide the necessary labor to install the materials. The NCDOT Highway Division will provide asphalt and traffic control. The total estimated cost to the Rail Division is \$38,000. FRRCSI ID: F16257</p>	<p>\$38,000</p>
<p>Division 13 Buncombe County</p>	<p>The Rail Division requests Board reallocation of a portion of Freight Rail &amp; Rail Crossing Safety Improvement (FRRCSI) funds from Norfolk Southern Transmontaigne – Greensboro and Norfolk Southern Transmontaigne - Selma (due to lack of industry commitment) to the improvement of an at-grade railroad crossing by installing a rail seal surface to replace the existing surface on the Craggy Mountain Railroad (CMR). The crossing to be improved is 720 457G (NC 251 River Side Drive). CMR will provide the necessary labor to install the materials. The NCDOT Highway Division will provide asphalt and traffic control. The total estimated cost to the Rail Division is \$48,000. FRRCSI ID: F14273</p>	<p>\$48,000</p>
<p>Division 14 Haywood County</p>	<p>The Rail Division requests Board reallocation of a portion of Freight Rail &amp; Rail Crossing Safety Improvement (FRRCSI) funds from Rail Resources of North Carolina and Project Blue Jay (due to lack of industry commitment) to the improvement of an at-grade railroad crossing by installing a concrete tub surface to replace the existing surface on the Blue Ridge Southern Railroad (BLU). The crossing to be improved is 720 349K (NC 215 Blackwell Drive). BLU will provide the necessary labor to install the materials. The NCDOT Highway Division will provide traffic control. The total estimated cost to the Rail Division is \$85,000. FRRCSI ID: F16258</p>	<p>\$85,000</p>

<p>Division 14 Henderson County</p>	<p>The Rail Division requests Board reallocation of a portion of Freight Rail &amp; Rail Crossing Safety Improvement (FRRCSI) funds from Norfolk Southern Luckey Logistics and Norfolk Southern Transmontaigne – Greensboro (due to lack of industry commitment) to the improvement of an at-grade railroad crossing by installing a concrete tub surface to replace the existing surface on the Blue Ridge Southern Railroad (BLU). The crossing to be improved is 925 352M (SR 1508 Berkeley Road). BLU will provide the necessary labor to install the materials. The NCDOT Highway Division will provide traffic control. The total estimated cost to the Rail Division is \$80,000. FRRCSI ID: F14274</p>	<p>\$80,000</p>
<p>Division 14 Henderson County</p>	<p>The Rail Division requests Board reallocation of a portion of Freight Rail &amp; Rail Crossing Safety Improvement (FRRCSI) funds from Project Apex and Norfolk Southern Agrium (due to lack of industry commitment) to the improvement of an at-grade railroad crossing by installing a concrete tub surface to replace the existing surface on the Blue Ridge Southern Railroad (BLU). The crossing to be improved is 729 536Y (SR 1528 Brookside Camp Road). BLU will provide the necessary labor to install the materials. The NCDOT Highway Division will provide traffic control. The total estimated cost to the Rail Division is \$58,000. FRRCSI ID: F14275 &amp; F16259</p>	<p>\$58,000</p>
<p>Division 14 Henderson County</p>	<p>The Rail Division requests Board reallocation of a portion of Freight Rail &amp; Rail Crossing Safety Improvement (FRRCSI) funds from Norfolk Southern Luckey Logistics (due to lack of industry commitment) to the improvement of an at-grade railroad crossing by installing a rail seal surface to replace the existing surface on the Blue Ridge Southern Railroad (BLU). The crossing to be improved is 720 646D (SR 1537 Old Brickyard Road). BLU will provide the necessary labor to install the materials. The NCDOT Highway Division will provide asphalt and traffic control. The total estimated cost to the Rail Division is \$30,000. FRRCSI ID: F14276</p>	<p>\$30,000</p>
<p>Division 14 Jackson County</p>	<p>The Rail Division requests Board reallocation of a portion of Freight Rail &amp; Rail Crossing Safety Improvement (FRRCSI) funds from Project Apex (due to lack of industry commitment) to the improvement of an at-grade railroad crossing by installing a concrete tub surface to replace the existing surface on the Blue Ridge Southern Railroad (BLU). The crossing to be improved is 720 251G (SR 1432 Skyland Drive). BLU will provide the necessary labor to install the materials. The NCDOT Highway Division will provide traffic control. The total estimated cost to the Rail Division is \$115,000. FRRCSI ID: F16260</p>	<p>\$115,000</p>

<p>Division 14 Jackson County</p>	<p>The Rail Division requests Board reallocation of a portion of Freight Rail &amp; Rail Crossing Safety Improvement (FRRCSI) funds from Norfolk Southern Transmontaigne – Selma (due to lack of industry commitment) to the improvement of an at-grade railroad crossing by installing a concrete tub surface to replace the existing surface on the Great Smoky Mountains Railroad (GSM). The crossing to be improved is 720 229U (SR 1392 Barkers Creek Road). GSM will provide the necessary labor to install the materials. The NCDOT Highway Division will provide traffic control. The total estimated cost to the Rail Division is \$40,000. FRRCSI ID: F14277</p>	<p>\$40,000</p>
<p>Division 14 Jackson County</p>	<p>The Rail Division requests Board reallocation of a portion of Freight Rail &amp; Rail Crossing Safety Improvement (FRRCSI) funds from Norfolk Southern Transmontaigne – Greensboro (due to lack of industry commitment) to the improvement of an at-grade railroad crossing by installing a rail seal surface to replace the existing surface on the Blue Ridge Southern Railroad (BLU). The crossing to be improved is 720 273G (SR 1705 Dark Ridge Drive). BLU will provide the necessary labor to install the materials. The NCDOT Highway Division will provide asphalt and traffic control. The total estimated cost to the Rail Division is \$24,000. FRRCSI ID: F14278</p>	<p>\$24,000</p>
<p>Division 14 Jackson County</p>	<p>The Rail Division requests Board reallocation of a portion of Freight Rail &amp; Rail Crossing Safety Improvement (FRRCSI) funds from Norfolk Southern Luckey Logistics (due to lack of industry commitment) to the improvement of an at-grade railroad crossing by installing a concrete tub surface to replace the existing surface on the Great Smoky Mountains Railroad (GSM). The crossing to be improved is 720 228M (SR 1534 Wilmont Road). GSM will provide the necessary labor to install the materials. The NCDOT Highway Division will provide traffic control. The total estimated cost to the Rail Division is \$35,000. FRRCSI ID: F14279</p>	<p>\$35,000</p>
<p>Division 14 Jackson County</p>	<p>The Rail Division requests Board reallocation of a portion of Freight Rail &amp; Rail Crossing Safety Improvement (FRRCSI) funds from Norfolk Southern Luckey Logistics (due to lack of industry commitment) to the improvement of an at-grade railroad crossing by installing a concrete tub surface to replace the existing surface on the Blue Ridge Southern Railroad (BLU). The crossing to be improved is 720 259L (SR 1527 Steeple Road). BLU will provide the necessary labor to install the materials. The NCDOT Highway Division will provide traffic control. The total estimated cost to the Rail Division is \$24,000. FRRCSI ID: F14280</p>	<p>\$24,000</p>

Division 14 Jackson County	The Rail Division requests Board reallocation of a portion of Freight Rail & Rail Crossing Safety Improvement (FRRCSI) funds from Rail Resources of North Carolina (due to lack of industry commitment) to the improvement of an at-grade railroad crossing by installing a rail seal surface to replace the existing surface on the Blue Ridge Southern Railroad (BLU). The crossing to be improved is 720 266W (SR 1456 Mineral Springs Road). BLU will provide the necessary labor to install the materials. The NCDOT Highway Division will provide asphalt and traffic control. The total estimated cost to the Rail Division is \$48,000. FRRCSI ID: F16261	\$48,000
Division 14 Swain County	The Rail Division requests Board reallocation of a portion of Freight Rail & Rail Crossing Safety Improvement (FRRCSI) funds from Norfolk Southern Transmontaigne – Greensboro (due to lack of industry commitment) to the improvement of an at-grade railroad crossing by installing a rail seal surface to replace the existing surface on the Great Smoky Mountains Railroad (GSM). The crossing to be improved is 720 164D (SR 1180 NOC Way). GSM will provide the necessary labor to install the materials. The NCDOT Highway Division will provide asphalt and traffic control. The total estimated cost to the Rail Division is \$50,000. FRRCSI ID: F14281	\$50,000
Division 14 Swain County	The Rail Division requests Board reallocation of a portion of Freight Rail & Rail Crossing Safety Improvement (FRRCSI) funds from Norfolk Southern Transmontaigne – Selma (due to lack of industry commitment) to the improvement of an at-grade railroad crossing by installing a rail seal surface to replace the existing surface on the Great Smoky Mountains Railroad (GSM). The crossing to be improved is 720 219G (SR 1311 Buckner Branch Road). GSM will provide the necessary labor to install the materials. The NCDOT Highway Division will provide asphalt and traffic control. The total estimated cost to the Rail Division is \$23,000. FRRCSI ID: F14282	\$23,000

**ITEM I-2 SUMMARY – 34 PROJECTS – (TOTAL FEDERAL AND STATE) \$1,449,000**

**NCDOT December 2016 Board of Transportation Agenda**  
**Division of Bicycle and Pedestrian Transportation Program**

<b>Town/County Division</b>	<b>Project Description</b>	<b>Estimated Cost</b>	
Statewide	<b>Watch For Me NC Safety Campaign Evaluation</b> Pedestrian and Safety Program Evaluation from 2012 to 2016. NCDOT Share 20% - \$12,000	\$60,000 \$48,000 \$12,000 \$0	Total Federal State Local

**ITEM I-3 SUMMARY – 1 PROJECT – (TOTAL FEDERAL, STATE AND LOCAL) \$60,000**

**NCDOT December 2016 Board of Transportation Agenda**

**Aviation Division**

**Town/County  
Division**

**Project Description**

**Estimated  
Cost**

There will be no items presented for approval at the December 1, 2016 Board of Transportation meeting.

**ITEM I-4 SUMMARY – NO PROJECTS**

**NCDOT December 2016 Board of Transportation Agenda  
Approval of Specific State Funds for Construction Projects  
(For projects previously identified as Specific State Funds for Construction projects  
Now being funded under Strategic Transportation Investments)**

Town/ County Division PROJ. CATEGORY	Project Description	Estimated Cost
Jackson Co. Div. 14 R-5000 DIVISION	WBS 41156.3.1 New location connector from NC 116 to NC 107 in Webster. \$17,774,043.00 has previously been approved for construction. Additional funds are needed to cover expenditures that have or will exceed the previously authorized budget. <b>This is a Strategic Transportation Investments Transition project.</b>	\$600,000.00
<b>ITEM J SUMMARY</b>	<b>1 PROJECT</b>	<b>\$600,000.00</b>

**NCDOT December 2016 Board of Transportation Agenda  
Approval of State Highway Trust Funds - Strategic Transportation Investments**

<b>Town/ County Division PROJ. CATEGORY</b>	<b>Project Description</b>	<b>Estimated Cost</b>
Pitt Co. Div. 2 R-2250 REGIONAL	WBS 34411.2.9 NC 11-903 (Greenville Southwest Bypass) from NC 11 to US 264 (Greenville Bypass). Initial funds are requested for Map Act Appraisals and to allow for future acquisition of specific parcels.	\$100,000.00
New Hanover/ Pender Cos. Div. 3 R-3300 REGIONAL	WBS 40237.2.3 US 17 Hampstead Bypass from US 17 to US 17 north of Hampstead. Initial funds are requested for Map Act Appraisals and to allow for future acquisition of specific parcels.	\$500,000.00
Wilmington/ New Hanover Co. Div. 3 U-4751 STATEWIDE	WBS 40191.2.3 SR 1409 (Military Cutoff Road Extension) from SR 1409 (Military Cutoff Road) to US 17 in Wilmington. Initial funds are requested for Map Act Appraisals and to allow for future acquisition of specific parcels.	\$50,000.00
Statewide Div. 3 M-0488H STATEWIDE	WBS 46404.1.8 Military Cutoff - Map Act Lawsuit. \$50,000.00 has previously been approved for preliminary engineering. Additional funds are requested.	\$200,000.00
Wake Co. Div. 5 R-2721 STATEWIDE	WBS 37673.2.3 Southern Wake Freeway from NC 55 South to US 401 South. Initial funds are requested for Map Act Appraisal and to allow for future acquisition of specific parcels.	\$300,000.00

**NCDOT December 2016 Board of Transportation Agenda  
Approval of State Highway Trust Funds - Strategic Transportation Investments**

<b>Town/ County Division PROJ. CATEGORY</b>	<b>Project Description</b>	<b>Estimated Cost</b>
Wake Co. Div. 5 R-2828 STATEWIDE	WBS 35516.2.3 Southern Wake Freeway from US 401 to I-40. Initial funds are requested for Map Act Appraisals and to allow for future acquisition of specific parcels.	\$150,000.00
Cumberland/ Robeson Cos. Div. 6 U-2519 REGIONAL	WBS 34817.2.26 The Fayetteville Outer Loop from I-95 in Robeson County to east of NC 24 (Bragg Boulevard) in Cumberland County. Initial funds are requested for Map Act Appraisals and to allow for future acquisition of specific parcels.	\$750,000.00
Fayetteville/ Cumberland Co. Div. 6 U-2519CA STATEWIDE	WBS 34817.2.25 Fayetteville Outer Loop from south of US 401 to south of SR 1400 (Cliffdale Road). Initial funds are requested for Map Act Appraisals and to allow for future acquisition of specific parcels.	\$100,000.00
Pembroke/ Robeson Co. Div. 6 P-4900 STATEWIDE	WBS 41099.2.S1 Railroad Bypass of Pembroke to allow North to South shipments to turn East. \$1,800,000.00 has previously been approved for right of way. Additional funds are needed to cover expenditures that have or will exceed the previously authorized budget. <b>This is a Strategic Transportation Investments Transition project.</b>	\$600,000.00
Guilford/ Rockingham Cos. Div. 7 R-2413 REGIONAL	WBS 34429.2.6 Future I-73 from NC 68 at SR 2011 (Edgefield Road) in Guilford County to US 220-NC 68 intersection in Rockingham County. Initial funds are requested for Map Act Appraisals and to allow for future acquisition of specific parcels.	\$50,000.00

**NCDOT December 2016 Board of Transportation Agenda  
Approval of State Highway Trust Funds - Strategic Transportation Investments**

<b>Town/ County Division PROJ. CATEGORY</b>	<b>Project Description</b>	<b>Estimated Cost</b>
Guilford Co. Div. 7 U-2524D STATEWIDE	WBS 34820.2.20 Greensboro Western Loop from US 220 (Battleground Avenue) to SR 2303 (Lawndale Drive). Initial funds are requested for Map Act Appraisals and to allow for future acquisition of specific parcels.	\$50,000.00
Greensboro/ Guilford Co. Div. 7 U-2525C STATEWIDE	WBS 34821.2.5 Greensboro Eastern Loop from US 29 north of Greensboro to SR 2303 (Lawndale Drive). Initial funds are requested for Map Act Appraisals and to allow for future acquisition of specific parcels.	\$150,000.00
Lee Co. Div. 8 AV-5762 DIVISION	WBS 46356.3.1 Raleigh Executive Sanford - Lee County Airport (TTA). Construct apron expansion and widen taxiway from 35 to 60 feet. Initial funds are requested for construction. (\$1,500,000.00 of this funding is <b>Economic Development Funding</b> ).	\$3,466,000.00
Cabarrus Co. Div. 10 U-5806 DIVISION	WBS 44378.2.1 Intersection of SR 2894 (Concord Mills Boulevard) and Entrance No. 1 - Kings Grant Pavilion. Initial funds are requested for full right of way.	\$100,000.00
Mecklenburg Co. Div. 10 R-2248G STATEWIDE	WBS 34410.3.32 I-485 Charlotte Outer Loop Interchange with SR 2042 (Oakdale Road). \$2,709,604.00 has previously been approved for construction. Additional funds are needed to reflect the low bid received on the project. <b>This is a Strategic Transportation Investments Transition project.</b>	\$2,800,000.00

**NCDOT December 2016 Board of Transportation Agenda  
Approval of State Highway Trust Funds - Strategic Transportation Investments**

<b>Town/ County Division PROJ. CATEGORY</b>	<b>Project Description</b>	<b>Estimated Cost</b>
Mecklenburg Co. Div. 10 U-2509A STATEWIDE	WBS 38965.2.2 US 74 (Independence Boulevard) from Conference Drive to Sardis Road North. Initial funds are requested for appraisal of Specific Parcel 900.	\$25,000.00
Mecklenburg Co. Div. 10 U-5762 REGIONAL	WBS 50175.2.1 NC 160 (Steele Creek Road) at intersection of NC 160 (Steele Creek Road) and SR 1106 (Hamilton Road). Initial funds are requested for full right of way.	\$100,000.00
Wilkes Co. Div. 11 R-5759 DIVISION	WBS 44691.1.1 NC 115 from US 421 to 2nd Street. Initial funds are requested for preliminary engineering.	\$1,000,000.00
Macon Co. Div. 14 R-5734 DIVISION	WBS 50192.1.1 US 23 / US 441 from US 64 to SR 1652 (Wide Horizon Drive/ SR 1152 (Belden Circle). \$360,811.00 has previously been approved for preliminary engineering. Additional funds are needed to cover expenditures that have or will exceed the previously authorized budget.	\$250,000.00
STATEWIDE STRATEGIC TRANSPORTATION INVESTMENTS	10 PROJECTS	\$4,425,000.00
REGIONAL STRATEGIC TRANSPORTATION INVESTMENTS	5 PROJECTS	\$1,500,000.00
DIVISION STRATEGIC TRANSPORTATION INVESTMENTS	4 PROJECTS	\$4,816,000.00
<b>STRATEGIC TRANSPORTATION INVESTMENTS</b>	<b>19 PROJECTS</b>	<b>\$10,741,000.00</b>

**December 1, 2016**

**NCDOT December 2016 Board of Transportation Agenda  
Approval of State Highway Trust Funds - Intrastate System  
(For projects previously identified as Intrastate Trust Fund projects)**

Town/ County Division PROJ. CATEGORY	Project Description	Estimated Cost
Wayne Co. Div. 4 R-2554A STATEWIDE	WBS 34461.3.4 US 70 (Goldsboro Bypass) from west of NC 581 to SR 1300 (Salem Church Rd.), 5.894 miles. \$68,959,161.00 has previously been approved for construction. Additional funds are needed to cover expenditures that have or will exceed the previously authorized budget. <b>This is a Strategic Transportation Investments Transition project.</b>	\$300,000.00
Rutherfordton/ Rutherford Co. Div. 13 R-2233BB SW/DIV	WBS 34400.2.5 US 221 south of US 74 Business to north of SR 1366 (Roper Loop Road). \$175,168.00 has previously been approved for appraisal of specific parcels. Funds are requested for appraisal of Specific Parcel 900 using Division Tier funding.	\$25,000.00
<b>TRUST FUND INTRASTATE SUMMARY</b>	<b>2 PROJECTS</b>	<b>\$325,000.00</b>

**NCDOT December 2016 Board of Transportation Agenda  
Approval of State Highway Trust Funds - Urban Loops**

<b>Town/ County Division PROJ. CATEGORY</b>	<b>Project Description</b>	<b>Estimated Cost</b>
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. \$29,105,306.00 has previously been approved for appraisal and advanced acquisition of specific parcels. Funds are requested for appraisal of Specific Parcel 904 and Specific Parcel 905.	\$50,000.00
<b>TRUST FUND URBAN LOOP</b>	<b>1 PROJECT</b>	<b>\$50,000.00</b>
<b>STRATEGIC TRANSPORTATION INVESTMENTS</b>	<b>19 PROJECTS</b>	<b>\$10,741,000.00</b>
<b>TRUST FUND INTRASTATE SUMMARY</b>	<b>2 PROJECTS</b>	<b>\$325,000.00</b>
<b>TRUST FUND URBAN LOOP</b>	<b>1 PROJECT</b>	<b>\$50,000.00</b>
<b>SUMMARY OF FUNDS</b>	<b>22 PROJECTS</b>	<b>\$11,116,000.00</b>

---

FYI: Funding for Transition Period projects is excluded from the Transportation Investment Strategy Formula.

**December 1, 2016**

**NCDOT December 2016 Board of Transportation Agenda  
Approval of Funds for Specific Spot Safety Improvement Projects**

L-1

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

<b>Town/ County Division PROJ. CATEGORY</b>	<b>Project Description</b>	<b>Estimated Cost</b>
Wilmington/ New Hanover Co. Div. 3 SS-4903CO	WBS 44933.3.1 SR 1272 (New Centre Drive) and Dapple Court. Initial construction funds are needed for installation of pedestrian signal and crosswalk. File 03-16-42119C	\$54,135.00
Onslow Co. Div. 3 SS-4903CP	WBS 44934.3.1 SR 1119 (High Hill Road). Initial construction funds are needed for pavement marking improvements. File 03-16-41398C	\$31,500.00
Swansboro/ Onslow Co. Div. 3 SS-4903CR	WBS 44970.3.1 NC 24 and SR 1509 (Queens Creek Road). Initial construction funds are needed for traffic signal revisions. File 03-16-42054C	\$13,050.00
Sampson Co. Div. 3 SS-4903CQ	WBS 44969.3.1 US 13 and US 421/NC 242. Initial construction funds are needed for traffic signal revisions. File 03-16-40410C	\$19,170.00
Halifax/ Nash Cos. Div. 4 SS-4904DZ	WBS 44956.3.1 NC 97 at SR 1001 (Old Bailey Highway) in Nash County. NC 4/48 at NC 4/561 in Halifax County. Initial construction funds are needed for flasher, pavement marking, and signing improvements. File 04-16-41820C	\$26,100.00

**December 1, 2016**

**NCDOT December 2016 Board of Transportation Agenda  
Approval of Funds for Specific Spot Safety Improvement Projects**

L-2

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

<b>Town/ County Division PROJ. CATEGORY</b>	<b>Project Description</b>	<b>Estimated Cost</b>
Johnston/ Nash Cos. Div. 4 SS-4904DU	WBS 44957.3.1 NC 48 near SR 1536 (Boseman Road). SR 1173 (Honeycutt Street) near US 301. Initial construction funds are needed for curve safety improvements. File 04-15-38197C	\$84,600.00
Johnston Co. Div. 4 SS-4904DV	WBS 44935.2.1 NC 96 at SR 1178 (Keen Road). Initial right of way and utilities funds are needed for an all-way stop installation. File 04-16-40924R	\$4,500.00
Johnston Co. Div. 4 SS-4904DV	WBS 44935.3.1 NC 96 at SR 1178 (Keen Road). Initial construction funds are needed for an all-way stop installation. File 04-16-40924C	\$18,000.00
Johnston Co. Div. 4 SS-4904DY	WBS 44938.3.1 NC 42 at NC 50; NC 50 at SR 1524 (Old Drug Store Road); NC 42 at the US 70 Bypass Westbound ramps; NC 42 at the US 70 Bypass Eastbound ramps; and NC 42 at SR 1556 (Government Road). Initial construction funds are needed for traffic signal revisions. File 04-16-40326C	\$36,000.00
Wayne Co. Div. 4 SS-4904DW	WBS 44936.2.1 SR 1958 (Bennetts Bridge Road) near the Duplin County Line. Initial right of way and utilities funds are needed for superelevation improvements and guardrail installation. File 04-15-36806R	\$9,000.00

**NCDOT December 2016 Board of Transportation Agenda  
Approval of Funds for Specific Spot Safety Improvement Projects**

L-3

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

<b>Town/ County Division PROJ. CATEGORY</b>	<b>Project Description</b>	<b>Estimated Cost</b>
Wayne Co. Div. 4 SS-4904DW	WBS 44936.3.1 SR 1958 (Bennetts Bridge Road) near the Duplin County Line. Initial construction funds are needed for superelevation improvements and guardrail installation. File 04-15-36806C	\$180,000.00
Goldsboro/ Wayne Co. Div. 4 SS-4904DX	WBS 44937.3.1 NC 111 at NC 581; NC 111 at SR 1961 (Sheridan Forest Road); NC 111 at Southeast Drive; and NC 111 at SR 1727 (Dollard Town Road). Initial construction funds are needed for traffic signal revisions. File 04-15-38551C	\$69,300.00
Goldsboro/ Wayne Co. Div. 4 SS-4904DX	WBS 44937.2.1 NC 111 at NC 581; NC 111 at SR 1961 (Sheridan Forest Road); NC 111 at Southeast Drive; and NC 111 at SR 1727 (Dollard Town Road). Initial right of way and utilities funds are needed for traffic signal revisions. File 04-15-38551R	\$4,500.00
Durham/ Durham Co. Div. 5 SS-4905DW	WBS 44941.3.1 SR 1959 (Miami Boulevard) at SR 1954 (Ellis Road). Initial construction funds are needed for traffic signal revisions. File 05-16-2007C	\$13,500.00
Durham/ Durham Co. Div. 5 SS-4905DY	WBS 44943.3.1 SR 1118 (Fayetteville Road) at Cook Road/Hillside High School. Initial construction funds are needed for traffic signal revisions and pedestrian safety improvements. File 05-16-2102C	\$22,500.00

**NCDOT December 2016 Board of Transportation Agenda  
Approval of Funds for Specific Spot Safety Improvement Projects**

L-4

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

<b>Town/ County Division PROJ. CATEGORY</b>	<b>Project Description</b>	<b>Estimated Cost</b>
Raleigh/ Wake Co. Div. 5 SS-4905DS	WBS 44939.3.1 US 401 at SR 2108/SR 2036 (New Hope Road) and US 401 at Calvary Drive. Initial construction funds are needed for pedestrian safety improvements. File 05-16-2076C	\$54,000.00
Apex/ Wake Co. Div. 5 SS-4905DT	WBS 44931.3.1 SR 1163 (Kelly Road) at US 64 Eastbound. \$10,000.00 in construction funds have previously been approved for traffic signal and pavement marking revisions. Funds need to be decreased due to additional development in the area with likely changes to the intersection. The project will be deleted. File 05-15-8126-3	-\$10,000.00
Wake Co. Div. 5 SS-4905DV	WBS 44940.3.1 SR 1001 (Pearces Road) at SR 2309 (Dukes Lake Road). Initial construction funds are needed for an all-way stop installation. File 05-16-2005C	\$22,500.00
Garner/ Wake Co. Div. 5 SS-4905DX	WBS 44942.3.1 SR 2713 (Vandora Springs Road) at SR 2812 (Timber Drive). Initial construction funds are needed for traffic signal revisions. File 05-16-2074C	\$31,500.00
Cary/ Wake Co. Div. 5 SS-4905DZ	WBS 44944.2.1 SR 1625 (Green Level Church Road) at Dennison Lane/Jewel Creek Drive. Initial right of way and utilities funds are needed for pedestrian hybrid beacon installation. File 05-16-9410R	\$900.00

**December 1, 2016**

**NCDOT December 2016 Board of Transportation Agenda  
Approval of Funds for Specific Spot Safety Improvement Projects**

L-5

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

<b>Town/ County Division PROJ. CATEGORY</b>	<b>Project Description</b>	<b>Estimated Cost</b>
Cary/ Wake Co. Div. 5 SS-4905DZ	WBS 44944.3.1 SR 1625 (Green Level Church Road) at Dennison Lane/Jewel Creek Drive. Initial construction funds are needed for pedestrian hybrid beacon installation. File 05-16-9410C	\$80,100.00
Cary/ Wake Co. Div. 5 SS-4905EA	WBS 44945.3.1 NC 54 (NW Maynard Road) at SR 1653 (Evans Road). Initial construction funds are needed for traffic signal revisions. File 05-16-2091C	\$22,500.00
Wake Co. Div. 5 SS-4905EB	WBS 44946.3.1 I-495 Northbound at SR 2036/SR 2697 (New Hope Road) and I-495 Southbound at SR 2516 (Hodge Road). Initial construction funds are needed for warning sign improvements. File 05-16-2210C	\$13,500.00
Raleigh/ Wake Co. Div. 5 SS-4905EC	WBS 44947.3.1 SR 2298 (Edenton Street), SR 5809 (Morgan Street), US 70 (McDowell Street) and US 70/US 401 (Dawson Street). Initial construction funds are needed for installation of high visibility crosswalks at the signalized intersections along each corridor. File 05-16-2071C	\$68,400.00
Wake Co. Div. 5 SS-4905ED	WBS 44958.3.1 SR 1006 (Old Stage Road) at SR 1010 (Ten Ten Road). Initial construction funds are needed for turn lane construction. File 05-16-2004C	\$243,000.00

**December 1, 2016**

**NCDOT December 2016 Board of Transportation Agenda  
Approval of Funds for Specific Spot Safety Improvement Projects**

L-6

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

<b>Town/ County Division PROJ. CATEGORY</b>	<b>Project Description</b>	<b>Estimated Cost</b>
Wake Co. Div. 5 SS-4905ED	WBS 44958.2.1 SR 1006 (Old Stage Road) at SR 1010 (Ten Ten Road). Initial right of way and utilities funds are needed for turn lane construction. File 05-16-2004R	\$63,000.00
Spring Lake/ Cumberland Co. Div. 6 SS-4906CT	WBS 44948.3.1 NC 210 at Spring Lake Town Center. Initial construction funds are needed for installation of marked and signalized crosswalks. File 06-16-41606C	\$43,200.00
Spring Lake/ Cumberland Co. Div. 6 SS-4906CT	WBS 44948.2.1 NC 210 at Spring Lake Town Center. Initial right of way and utilities funds are needed for installation of marked and signalized crosswalks. File 06-16-41606R	\$4,500.00
Robeson Co. Div. 6 SS-4906CU	WBS 44949.2.1 SR 2207 (Popes Crossing Road) at SR 2215/SR 2289 (Alamac Road). Initial right of way and utilities funds are needed for intersection improvements. File 06-16-41742R	\$9,000.00
Robeson Co. Div. 6 SS-4906CU	WBS 44949.3.1 SR 2207 (Popes Crossing Road) at SR 2215/SR 2289 (Alamac Road). Initial construction funds are needed for intersection improvements. File 06-16-41742C	\$306,000.00

**December 1, 2016**

**NCDOT December 2016 Board of Transportation Agenda  
Approval of Funds for Specific Spot Safety Improvement Projects**

L-7

**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**

<b>Town/ County Division PROJ. CATEGORY</b>	<b>Project Description</b>	<b>Estimated Cost</b>
High Point/ Guilford Co. Div. 7 SS-4907BU	WBS 44950.2.1 SR 1552 (Tarrant Road) at SR 1541 (Wendover Ave). Initial right of way and utilities funds are needed for curve safety improvements. File 07-16-128R	\$900.00
High Point/ Guilford Co. Div. 7 SS-4907BU	WBS 44950.3.1 SR 1552 (Tarrant Road) at SR 1541 (Wendover Ave). Initial construction funds are needed for curve safety improvements. File 07-16-128C	\$242,100.00
Chatham Co. Div. 8 SS-4908AM	WBS 44195.3.1 NC 751 at SR 1733 (New Hope Church Road). \$270,000.00 in construction funds have previously been approved for turn lane construction. Additional funds are needed due to an increase in construction costs. File 08-14-8130-3	\$279,000.00
Chatham Co. Div. 8 SS-4908BE	WBS 44951.3.1 NC 902 at SR 1176 (Old US 421). Initial construction funds are needed for an all-way stop installation. File 08-16-2008C	\$13,500.00
Pittsboro/ Chatham Co. Div. 8 SS-4908BH	WBS 44954.3.1 US 15-501 at Lowes Drive/Powell Place Lane. Initial construction funds are needed for traffic signal revisions. File 08-16-2101C	\$9,000.00

**NCDOT December 2016 Board of Transportation Agenda  
Approval of Funds for Specific Spot Safety Improvement Projects**

L-8

**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**

<b>Town/ County Division PROJ. CATEGORY</b>	<b>Project Description</b>	<b>Estimated Cost</b>
Lee Co. Div. 8 SS-4908BF	WBS 44952.3.1 NC 42 at SR 1009 (Carbonton Road)/SR 1318 (Steel Bridge Road). Initial construction funds are needed for an all-way stop installation. File 08-16-2073C	\$22,500.00
Hoffman/ Richmond Co. Div. 8 SS-4908BG	WBS 44953.3.1 US 1 south of SR 1475 in Hoffman. Initial construction funds are needed for superelevation improvements. File 08-16-2100C	\$67,500.00
Winston- Salem/ Forsyth Co. Div. 9 SS-4909BT	WBS 44955.3.1 SR 4394 (Martin Luther King Jr. Drive) at I-40 Bus. Westbound ramps/First Street. SR 4394 (Martin Luther King Jr. Drive) at I-40 Bus. Eastbound ramps/Lowery Street. Initial construction funds are needed for traffic signal revisions. File 09-16-036C	\$18,000.00
Charlotte/ Mecklenburg Co. Div. 10 SS-4910CM	WBS 44959.3.1 SR 1009 (Monroe Road) and Covedale Road. Initial construction funds are needed for traffic signal installation. File 10-16-230C	\$56,700.00
Charlotte/ Mecklenburg Co. Div. 10 SS-4910CO	WBS 44961.3.1 US 21 (Statesville Road) and NC 24 (WT Harris Boulevard). Initial construction funds are needed for widening and turn lane construction. File 10-16-240C	\$112,500.00

**December 1, 2016**

**NCDOT December 2016 Board of Transportation Agenda  
Approval of Funds for Specific Spot Safety Improvement Projects**

L-9

**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**

<b>Town/ County Division PROJ. CATEGORY</b>	<b>Project Description</b>	<b>Estimated Cost</b>
Mecklenburg Co. Div. 10 SS-4910CP	WBS 44962.2.1 SR 2805 (Harrisburg Road) and SR 2808 (Camp Stewart Road) near Charlotte. Initial right of way and utilities funds are needed for traffic signal installation. File 10-16-218R	\$40,500.00
Mecklenburg Co. Div. 10 SS-4910CP	WBS 44962.3.1 SR 2805 (Harrisburg Road) and SR 2808 (Camp Stewart Road) near Charlotte. Initial construction funds are needed for traffic signal installation. File 10-16-218C	\$7,200.00
Union Co. Div. 10 SS-4910CN	WBS 44960.3.1 SR 1001 (Love Mill Road) south of the Stanly County line. Initial construction funds are needed for guardrail installation. File 10-16-239C	\$22,500.00
Granite Falls/ Caldwell Co. Div. 11 SS-4911AL	WBS 44764.3.1 US 321 and SR 1109 (Pinewood Road). \$135,000.00 in construction funds have previously been approved for turn lanes and pedestrian crosswalk installation. Additional funds are needed due to an increase in construction costs. File 11-16-200-1	\$165,000.00
Asheville/ Buncombe Co. Div. 13 SS-4913CK	WBS 44963.2.1 US 19-23 (Patton Avenue) at Florida Avenue. Initial right of way and utilities funds are needed for traffic signal revisions and pedestrian safety improvements. File 13-16-222R	\$5,400.00

**NCDOT December 2016 Board of Transportation Agenda  
Approval of Funds for Specific Spot Safety Improvement Projects**

**L-10**

**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**

<b>Town/ County Division PROJ. CATEGORY</b>	<b>Project Description</b>	<b>Estimated Cost</b>
Asheville/ Buncombe Co. Div. 13 SS-4913CK	WBS 44963.3.1 US 19-23 (Patton Avenue) at Florida Avenue. Initial construction funds are needed for traffic signal revisions and pedestrian safety improvements. File 13-16-222C	\$67,500.00
Buncombe Co. Div. 13 SS-4913CL	WBS 44964.3.1 SR 1004 (Newfound Road) from NC 63 to SR 1297 near Leicester. Initial construction funds are needed for shoulder improvements and installation of rumblestrips with long-life pavement markings. File 13-16-223C	\$337,500.00
Buncombe Co. Div. 13 SS-4913CL	WBS 44964.2.1 SR 1004 (Newfound Road) from NC 63 to SR 1297 near Leicester. Initial right of way and utilities funds are needed for shoulder improvements and installation of rumblestrips with long-life pavement markings. File 13-16-223R	\$900.00
Henderson Co. Div. 14 SS-4914CT	WBS 44965.2.1 SR 1006 (Howard Gap Road) at SR 1625 (Whispering Hills Drive) near Hendersonville. Initial right of way and utilities funds are needed for actuated flasher installation. File 14-16-211R	\$4,500.00
Henderson Co. Div. 14 SS-4914CT	WBS 44965.3.1 SR 1006 (Howard Gap Road) at SR 1625 (Whispering Hills Drive) near Hendersonville. Initial construction funds are needed for actuated flasher installation. File 14-16-211C	\$36,000.00

**December 1, 2016**

**NCDOT December 2016 Board of Transportation Agenda  
Approval of Funds for Specific Spot Safety Improvement Projects**

L-11

**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**

<b>Town/ County Division PROJ. CATEGORY</b>	<b>Project Description</b>	<b>Estimated Cost</b>
Henderson Co. Div. 14 SS-4914CU	WBS 44966.2.1 SR 1127 (Kanuga Road) at SR 1228 (Jearl Lane) near Hendersonville. Initial right of way and utilities funds are needed for actuated flasher installation. File 14-16-210R	\$4,500.00
Henderson Co. Div. 14 SS-4914CU	WBS 44966.3.1 SR 1127 (Kanuga Road) at SR 1228 (Jearl Lane) near Hendersonville. Initial construction funds are needed for actuated flasher installation. File 14-16-210C	\$36,000.00
Jackson/ Macon Cos. Div. 14 SS-4914CW	WBS 44968.2.1 US 23-441 from SR 1331 (southwest intersection) in Macon County northeast to a point 0.4 mile northeast of SR 1300 in Jackson County, near Franklin. Initial right of way and utilities funds are needed for installation of rumblestrips with long-life pavement markings. File 14-16-214R	\$1,800.00
Jackson/ Macon Cos. Div. 14 SS-4914CW	WBS 44968.3.1 US 23-441 from SR 1331 (southwest intersection) in Macon County northeast to a point 0.4 mile northeast of SR 1300 in Jackson County, near Franklin. Initial construction funds are needed for installation of rumblestrips with long-life pavement markings. File 14-16-214C	\$270,000.00
Transylvania Co. Div. 14 SS-4914CV	WBS 44967.3.1 US 276 approximately 1.0 mile south of the Haywood County line near Brevard. Initial construction funds are needed for sight distance improvements. File 14-16-212C	\$337,500.00
<b>ITEM L SUMMARY</b>	<b>55 PROJECTS</b>	<b>\$3,696,455.00</b>

**December 1, 2016**

**NCDOT December 2016 Board of Transportation Agenda  
Approval of Funds for Specific Federal - Aid Projects**

**M-1**

**Division 1**

**Safety**

<b>Town/ County/PROJ CATEGORY</b>	<b>Project Description</b>	<b>Estimated Cost</b>
Statewide W-5700A DIVISION	46878.1.1, HSIP-000S(871) Division 1 - Signal Timing. Funds are needed for preliminary engineering.	\$20,000.00 Cost \$18,000.00 Fed. \$2,000.00 State

**Rail Program**

Northampton Co. Z-5400AG DIVISION	43600.3.71, RR-1301(011) Railway-Highway Grade Crossing Safety Project. SR 1301 (Cornwallis Road) at CSX Transportation Tracks; Crossing #630 115H near Garysburg. Funds are needed for construction of crossing flashers and gates.	\$200,000.00 Cost \$160,000.00 Fed. \$40,000.00 State
Washington Co. Z-5400AL DIVISION	43600.1.96, RR-1101(015) Railway-Highway Grade Crossing Safety Project at SR 1101 (Hollis Road) at Carolina Coastal Railway Tracks; Crossing #466 188T. Funds are needed for preliminary engineering.	\$45,000.00 Cost \$40,500.00 Fed. \$4,500.00 State

**NCDOT December 2016 Board of Transportation Agenda  
Approval of Funds for Specific Federal - Aid Projects**

**M-2**

**Division 1 (Continued)**

**Rural**

<b>Town/ County/PROJ CATEGORY</b>	<b>Project Description</b>	<b>Estimated Cost</b>
Statewide R-5781A DIVISION	44911.3.2, TAP-0110(006) ADA (Americans with Disabilities Act) Curb Ramps at various locations with a population of <5000. Funds are needed for construction to install or upgrade ADA Ramps.	\$145,000.00 Cost \$116,000.00 Fed. \$29,000.00 State
Statewide R-5781B DIVISION	44911.3.3, TAP-0110(007) ADA (Americans with Disabilities Act) Curb Ramps at various locations with a population of >5000. Funds are needed for construction to install or upgrade ADA Ramps.	\$40,000.00 Cost \$32,000.00 Fed. \$8,000.00 State
Statewide R-5781B DIVISION	44911.3.7, TAP-0110(011) ADA (Americans with Disabilities Act) Curb Ramps at various locations with a population of <5000. Funds are needed for construction to install or upgrade ADA Ramps.	\$159,000.00 Cost \$127,200.00 Fed. \$31,800.00 State
Statewide R-5781C DIVISION	44911.3.4, TAP-0110(008) ADA (Americans with Disabilities Act) Curb Ramps at various locations with a population of <5000. Funds are needed for construction to install or upgrade ADA Ramps.	\$108,000.00 Cost \$86,400.00 Fed. \$21,600.00 State
Statewide R-5781C DIVISION	44911.3.5, TAP-0110(009) ADA (Americans with Disabilities Act) Curb Ramps at various locations with a population of >5000. Funds are needed for construction to install or upgrade ADA Ramps.	\$42,000.00 Cost \$33,600.00 Fed. \$8,400.00 State
Statewide R-5781D DIVISION	44911.3.6, TAP-0110(010) ADA (Americans with Disabilities Act) Curb Ramps at various locations with a population of <5000. Funds are needed for construction to install or upgrade ADA Ramps.	\$111,000.00 Cost \$88,800.00 Fed. \$22,200.00 State

**NCDOT December 2016 Board of Transportation Agenda  
Approval of Funds for Specific Federal - Aid Projects**

**M-3**

**Division 2**

**Safety**

<b>Town/ County/PROJ CATEGORY</b>	<b>Project Description</b>	<b>Estimated Cost</b>
Pitt Co. W-5601CY REGIONAL	50138.2.104, HSIP-0264(060) US 264 Alternate (Greenville Boulevard) at SR 1135 (Williams Road) / Koinonia Church Western Driveway in Greenville. Funds are needed for full right of way.	\$38,000.00 Cost \$34,200.00 Fed. \$3,800.00 State
Pitt Co. W-5601HU REGIONAL	50138.3.230, HSIP-0013(051) US 13 (Memorial Drive) at Moye Boulevard. Funds are needed for construction of safety improvements.	\$52,300.00 Cost \$47,070.00 Fed. \$5,230.00 State
Statewide W-5700B DIVISION	46878.1.2, HSIP-000S(872) Division 2 - Signal Timing. Funds are needed for preliminary engineering.	\$135,000.00 Cost \$121,500.00 Fed. \$13,500.00 State

**Rail Program**

Craven Co. Z-5400BK DIVISION	43600.3.92, STPRR-0229(018) Rail-Highway Grade Crossing Safety Project. Guion Street at the Norfolk Southern Railway Crossing #722 705K in New Bern. Funds are needed for construction of flashers and gates.	\$410,000.00 Cost \$369,000.00 Fed. \$41,000.00 Local
------------------------------------	--	---

**Division 2 (Continued)**

**Rural**

<b>Town/ County/PROJ CATEGORY</b>	<b>Project Description</b>	<b>Estimated Cost</b>
Statewide R-5782A DIVISION	44912.3.2, TAP-0220(080) ADA (Americans with Disabilities Act) Curb Ramps at various locations with a population >5000. Funds are needed for construction to install or upgrade ADA Ramps.	\$116,150.00 Cost \$92,920.00 Fed. \$23,230.00 State
Statewide R-5782B DIVISION	44912.3.3, TAP-0220(081) ADA (Americans with Disabilities Act) Curb Ramps at various locations with a population <5000. Funds are needed for construction to upgrade or install ADA Ramps.	\$126,887.00 Cost \$101,510.00 Fed. \$25,377.00 State
Statewide R-5782C DIVISION	44912.3.4, TAP-0220(082) ADA (Americans with Disabilities Act) Curb Ramps at various locations with a population <5000. Funds are needed for construction to install or upgrade ADA Ramps.	\$172,525.00 Cost \$138,020.00 Fed. \$34,505.00 State

**NCDOT December 2016 Board of Transportation Agenda  
Approval of Funds for Specific Federal - Aid Projects**

**M-5**

**Division 3**

**Enhancement**

<b>Town/ County/PROJ CATEGORY</b>	<b>Project Description</b>	<b>Estimated Cost</b>
Brunswick Co. ER-5600JB DIVISION	46305.3.28, STP-0087(037) Town of Boiling Springs on NC 87 - Annual Plantings. Funds are needed for construction of plant beds.	\$65,000.00 Cost \$52,000.00 Fed. \$13,000.00 State

**Urban**

New Hanover Co. U-5534P DIVISION	44096.1.17, STPDA-0332(060) Multi-use path at Westgate Drive South, over Jacky's Creek into Ricegate Drive in Brunswick County. Funds are needed for preliminary engineering.	\$120,214.00 Cost \$96,172.00 Fed. \$24,042.00 Local
---	--	--

**Bridge**

Sampson Co. B-4637 DIVISION	33808.2.1, BRZ-1409(012) Replace Bridges #325 and #326 over Little Coharie Creek Overflow and Bridge #327 over Little Coharie Creek on SR 1409. Funds are needed for full right of way and utilities.	\$220,000.00 Cost \$176,000.00 Fed. \$44,000.00 State
Sampson Co. B-4814 DIVISION	38584.3.1, BRZ-1233(006) Replace Bridges #102, #103 and #104 over Little Coharie Creek on SR 1233. Funds are needed for construction based on the estimate from the 12-Month Tentative Letting List published on October 12, 2016.	\$1,500,000.00 Cost \$1,200,000.00 Fed. \$300,000.00 State

**December 1, 2016**

**Division 3 (Continued)**

**Safety**

<b>Town/ County/PROJ CATEGORY</b>	<b>Project Description</b>	<b>Estimated Cost</b>
Statewide W-5700C DIVISION	46878.1.3, HSIP-000S(873) Division 3 - Signal Timing. Funds are needed for preliminary engineering.	\$100,000.00 Cost \$90,000.00 Fed. \$10,000.00 State

**Rural**

Statewide R-5783A DIVISION	44913.3.2, TAP-0332(131) ADA (Americans with Disabilities Act) Curb Ramps at various locations with a population of <5000. Funds are needed for construction to install or upgrade ADA Ramps.	\$248,159.00 Cost \$198,527.00 Fed. \$48,586.00 State \$1,046.00 Local
Statewide R-5783B DIVISION	44913.3.3, TAP-0332(132) ADA (Americans with Disabilities Act) Curb Ramps at various locations with a population of >5000. Funds are needed for construction to install or upgrade ADA Ramps.	\$353,852.00 Cost \$283,081.00 Fed. \$66,585.00 State \$4,186.00 Local

**NCDOT December 2016 Board of Transportation Agenda  
Approval of Funds for Specific Federal - Aid Projects**

**M-7**

**Division 4**

**Safety**

<b>Town/ County/PROJ CATEGORY</b>	<b>Project Description</b>	<b>Estimated Cost</b>
Halifax Co. W-5601HL REGIONAL	50138.3.221, HSIP-0043(026) NC 43 at NC 561, SR 1329 (Evans Road) and SR 1333 (Lynch Road). Construction funds are needed for safety improvements.	\$50,000.00 Cost \$45,000.00 Fed. \$5,000.00 State
Johnston Co. W-5601DP DIVISION	50138.2.121, HSIP-1003(148) SR 1003 (Buffalo Road) between SR 1702 (Archer Lodge Road) and the Wake County Line. Funds are needed for full right of way.	\$75,000.00 Cost \$67,500.00 Fed. \$7,500.00 State
Statewide W-5700D DIVISION	46878.1.4, HSIP-000S(874) Division 4 - Signal Timing. Funds are needed for preliminary engineering.	\$95,000.00 Cost \$85,500.00 Fed. \$9,500.00 State
Wayne Co. W-5601HM REGIONAL	50138.3.222, HSIP-0055(060) NC 55 at SR 1948 (Camp Jubilee Road). Construction funds are needed for safety improvements.	\$55,000.00 Cost \$49,500.00 Fed. \$5,500.00 State

**Division 4 (Continued)**

**Rural**

<b>Town/ County/PROJ CATEGORY</b>	<b>Project Description</b>	<b>Estimated Cost</b>
Statewide R-5784A DIVISION	44914.3.2, TAP-0411(016) ADA (Americans with Disabilities Act) Curb Ramps at various locations with a population of <5000. Funds are needed for construction to install or upgrade ADA Ramps.	\$29,700.00 Cost \$23,760.00 Fed. \$5,940.00 State
Statewide R-5784B DIVISION	44914.3.3, TAP-0430(008) ADA (Americans with Disabilities Act) Curb Ramps at various locations with a population of >5000. Funds are needed for construction to install or upgrade ADA Ramps.	\$394,200.00 Cost \$315,360.00 Fed. \$78,840.00 State

**NCDOT December 2016 Board of Transportation Agenda  
Approval of Funds for Specific Federal - Aid Projects**

**M-9**

**Division 5**

**Congestion Mitigation**

<b>Town/ County/PROJ CATEGORY</b>	<b>Project Description</b>	<b>Estimated Cost</b>
Granville Co. C-5166A EXEMPT	46232.2.F1, CMS-0504(003) NC 56 Greenway in Creedmoor- (Combined with EB-5513 and C-5166B) Bike-Pedestrian Trail System. Funds are needed for full right of way.	\$20,000.00 Cost \$16,000.00 Fed. \$4,000.00 Local
Granville Co. C-5569 EXEMPT	50106.3.1, CMS-0519(002) Construct sidewalk and crosswalk enhancements at various locations. Funds are needed for construction of sidewalks.	\$250,000.00 Cost \$200,000.00 Fed. \$50,000.00 Local

**Urban**

Wake Co. U-5118AE REGIONAL	42379.3.30, STPDA-0501(035) NC 55 and Olive Chapel Road at Apex Parkway Intersections. Funds are needed for construction of additional turn lanes.	\$516,000.00 Cost \$412,800.00 Fed. \$103,200.00 Local
Fuquay Varina/ Wake Co. U-5317 DIVISION	45430.2.1, STPDA-0507(003) North Judd Parkway Northwest from NC 55 (North Broad Street) to NC 42 (West Academy Street) in Fuquay-Varina. Funds are needed for full right of way.	\$5,900,000.00 Cost \$2,950,000.00 Fed. \$2,950,000.00 Local

**NCDOT December 2016 Board of Transportation Agenda  
Approval of Funds for Specific Federal - Aid Projects**

**M-10**

**Division 5 (Continued)**

**Urban**

<b>Town/ County/PROJ CATEGORY</b>	<b>Project Description</b>	<b>Estimated Cost</b>
Holly Springs/ Wake Co. U-5529 DIVISION	44107.2.1, STPDA-0510(008) SR 1115 (Avent Ferry Road) west of SR 1101 (Piney Grove- Wilbon Road) to Village Walk Drive in Holly Springs. Funds are needed for full right of way and utilities.	\$200,000.00 Cost \$160,000.00 Fed. \$40,000.00 Local
Wake Co. U-5537 DIVISION	44112.2.1, STPDA-0501(034) SR 1521 (Lake Pine Drive), widen to 3 lanes north of MacGregor Pines Road to north of Versailles Drive, including 10 foot multi-use path east side and 5 foot sidewalk west side. Funds are needed for full right of way.	\$130,638.00 Cost \$91,447.00 Fed. \$39,191.00 Local

**Safety**

Divisionwide W-5700E DIVISION	46878.1.5, HSIP-000S(875) Division 5 - Signal Timing. Funds are needed for preliminary engineering.	\$160,000.00 Cost \$144,000.00 Fed. \$16,000.00 State
Wake Co. SS-4905DT STATEWIDE	44931.1.1, HSIP-1163(012) SR 1163 (Kelly Road) at US 64 Eastbound. \$2,500.00 has previously been approved for preliminary engineering. Federal Funds will be removed from WBS 44931.1.1 and closed. This project is being deleted.	-\$2,500.00 Cost -\$2,250.00 Fed. -\$250.00 State
Wake Co. W-5601BC REGIONAL	50138.3.56, HSIP-0042(062) NC 42 at SR 2736 (Rock Service Station Road). \$375,000.00 has previously been approved for construction. Additional funds are requested to match the agreement.	\$250,000.00 Cost \$125,000.00 Fed. \$125,000.00 State
Wake Co. W-5601EJ REGIONAL	50138.2.140, HSIP-001A(003) US 1A (South Main Street) between Star Road and Wake Pointe Shopping Center. Funds are needed for full right of way.	\$30,000.00 Cost \$27,000.00 Fed. \$3,000.00 State

**December 1, 2016**

**Division 5 (Continued)**

**Rural**

<b>Town/ County/PROJ CATEGORY</b>	<b>Project Description</b>	<b>Estimated Cost</b>
Statewide R-5785A DIVISION	44915.3.2, TAP-0505(078) ADA (Americans with Disabilities Act) Curb Ramps at various locations with a population of <5000. Funds are needed for construction to install or upgrade ADA Ramps.	\$135,000.00 Cost \$108,000.00 Fed. \$27,000.00 State
Statewide R-5785B DIVISION	44915.3.3, TAP-0505(079) ADA (Americans with Disabilities Act) Curb Ramps at various locations with a population of >5000. Funds are needed for construction to install or upgrade ADA Ramps.	\$300,000.00 Cost \$240,000.00 Fed. \$60,000.00 State

**NCDOT December 2016 Board of Transportation Agenda  
Approval of Funds for Specific Federal - Aid Projects**

**M-12**

**Division 6**

**Safety**

<b>Town/ County/PROJ CATEGORY</b>	<b>Project Description</b>	<b>Estimated Cost</b>
Cumberland Co. W-5601EP STATEWIDE	50138.3.147, HSIP-0024(076) NC 24 from SR 2022 (Carol Street) to the west intersection with Circle Street. Construction funds are needed for safety improvements.	\$320,000.00 Cost \$288,000.00 Fed. \$32,000.00 State
Statewide W-5700F DIVISION	46878.1.6, HSIP-000S(876) Division 6 - Signal Timing. Funds are needed for preliminary engineering.	\$210,000.00 Cost \$189,000.00 Fed. \$21,000.00 State

**Rail Program**

Robeson Co. Z-5400FP DIVISION	43600.1.95, RR-000S(870) Railway-Highway Grade Crossing Safety Project at multiple crossings along CSX Corridor at Malloy Street at Crossing #630 952W, First Street at Crossing # 630 976K in Maxton and NC 72 (Roberts Avenue) at Crossing #623 950R in Lumberton. Funds are needed for preliminary engineering.	\$180,000.00 Cost \$162,000.00 Fed. \$18,000.00 State
-------------------------------------	---	---

**Division 6 (Continued)**

**Rural**

<b>Town/ County/PROJ CATEGORY</b>	<b>Project Description</b>	<b>Estimated Cost</b>
Statewide R-5786A DIVISION	44916.3.2, TAP-0620(035) ADA (Americans with Disabilities Act) Curb Ramps at various locations with a population of >5000. Funds are needed for construction to install or upgrade ADA Ramps.	\$298,750.00 Cost \$239,000.00 Fed. \$59,750.00 State
Statewide R-5786A DIVISION	44916.3.3, TAP-0620(036) ADA (Americans with Disabilities Act) Curb Ramps at various locations with a population of <5000. Funds are needed for construction to install or upgrade ADA Ramps.	\$301,850.00 Cost \$241,480.00 Fed. \$60,370.00 State
Statewide R-5786B DIVISION	44916.3.4, TAP-0620(037) ADA (Americans with Disabilities Act) Curb Ramps at various locations with a population of >5000. Funds are needed for construction to install or upgrade ADA Ramps.	\$130,650.00 Cost \$104,520.00 Fed. \$26,130.00 State
Statewide R-5786B DIVISION	44916.3.5, TAP-0620(038) ADA (Americans with Disabilities Act) Curb Ramps at various locations with a population of <5000. Funds are needed for construction to install or upgrade ADA Ramps.	\$56,850.00 Cost \$45,480.00 Fed. \$11,370.00 State

**NCDOT December 2016 Board of Transportation Agenda  
Approval of Funds for Specific Federal - Aid Projects**

**M-14**

**Division 7**

**Bridge**

<b>Town/ County/PROJ CATEGORY</b>	<b>Project Description</b>	<b>Estimated Cost</b>
Rockingham Co. B-5352 STATEWIDE	46066.2.1, BRNHS-0220(067) Replace Bridge #131 over the Norfolk Southern Railroad Tracks on US 220 Northbound Lane. Funds are needed for full right of way and utilities.	\$240,000.00 Cost \$192,000.00 Fed. \$48,000.00 State

**Safety**

Divisionwide W-5601F STATEWIDE	50138.3.241, HSIP-000S(860) Multiple routes in Division 7. Funds are needed for construction of guardrail end unit upgrades.	\$495,000.00 Cost \$445,500.00 Fed. \$49,500.00 State
Statewide W-5700G DIVISION	46878.1.7, HSIP-000S(877) Division 7 - Signal Timing. Funds are needed for preliminary engineering.	\$125,000.00 Cost \$112,500.00 Fed. \$12,500.00 State

**NCDOT December 2016 Board of Transportation Agenda  
Approval of Funds for Specific Federal - Aid Projects**

**M-15**

**Division 7 (Continued)**

**Rural**

<b>Town/ County/PROJ CATEGORY</b>	<b>Project Description</b>	<b>Estimated Cost</b>
Statewide R-5787 DIVISION	44917.1.2, TAP-0708(087) ADA (Americans with Disabilities Act) Curb Ramps at various locations. Funds are needed for preliminary engineering.	\$20,000.00 Cost \$16,000.00 Fed. \$4,000.00 State
Statewide R-5787A DIVISION	44917.3.2, TAP-0708(083) ADA (Americans with Disabilities Act) Curb Ramps at various locations with a population of <5000. Funds are needed for construction to install or upgrade ADA Ramps.	\$317,000.00 Cost \$253,600.00 Fed. \$63,400.00 State
Statewide R-5787B DIVISION	44917.3.3, TAP-0708(084) ADA (Americans with Disabilities Act) Curb Ramps at various locations with a population of >5000. Funds are needed for construction to install or upgrade ADA Ramps.	\$314,000.00 Cost \$251,200.00 Fed. \$62,800.00 State
Statewide R-5787C DIVISION	44917.3.4, TAP-0708(085) ADA (Americans with Disabilities Act) Curb Ramps at various locations with a population of >5000. Funds are needed for construction to install or upgrade ADA Ramps.	\$261,000.00 Cost \$208,800.00 Fed. \$52,200.00 State
Statewide R-5787D DIVISION	44917.3.5, TAP-0708(086) ADA (Americans with Disabilities Act) Curb Ramps at various locations with a population of >5000. Funds are needed for construction to install or upgrade ADA Ramps.	\$259,000.00 Cost \$207,200.00 Fed. \$51,800.00 State

**NCDOT December 2016 Board of Transportation Agenda  
Approval of Funds for Specific Federal - Aid Projects**

**M-16**

**Division 8**

**Safety**

<b>Town/ County/PROJ CATEGORY</b>	<b>Project Description</b>	<b>Estimated Cost</b>
Chatham Co. W-5601CL STATEWIDE	50138.3.91, HSIP-0064(184) US 64 at SR 1716 (Big Woods Road) / SR 1941 (Seaforth Road). \$950,000.00 has previously been approved for construction. Additional funds are requested.	\$250,000.00 Cost \$225,000.00 Fed. \$25,000.00 State
Statewide W-5700H DIVISION	46878.1.8, HSIP-000S(878) Division 8 - Signal Timing. Funds are needed for preliminary engineering.	\$90,000.00 Cost \$81,000.00 Fed. \$9,000.00 State

**Rail Program**

Moore Co. Z-5400HE DIVISION	43600.1.97, RR-1105(026) Railway-Highway Grade Crossing Safety Project at SR 1105 (Pinebluff Lake Road) at CSX Tracks; Crossing #630 807X. Funds are needed for preliminary engineering.	\$59,000.00 Cost \$53,100.00 Fed. \$5,900.00 State
-----------------------------------	---	--

**Enhancement**

Scotland Co. ER-5600HE DIVISION	46305.3.27, STP-0074(193) Interchange of US 74 and US 501 (South Caledonia Road). Funds are needed for construction of landscape improvements.	\$184,000.00 Cost \$147,200.00 Fed. \$36,800.00 State
---------------------------------------	--	---

**Division 8 (Continued)**

**Rural**

<b>Town/ County/PROJ CATEGORY</b>	<b>Project Description</b>	<b>Estimated Cost</b>
Statewide R-5788A DIVISION	44918.3.2, TAP-0801(013) ADA (Americans with Disabilities Act) Curb Ramps at various locations with a population of <5000. Funds are needed for construction to install or upgrade ADA Ramps.	\$243,000.00 Cost \$194,400.00 Fed. \$48,600.00 State
Statewide R-5788B DIVISION	44918.3.3, TAP-0801(014) ADA (Americans with Disabilities Act) Curb Ramps at various locations with a population of >5000. Funds are needed for construction to install or upgrade ADA Ramps.	\$322,000.00 Cost \$257,600.00 Fed. \$64,400.00 State

**NCDOT December 2016 Board of Transportation Agenda  
Approval of Funds for Specific Federal - Aid Projects**

**M-18**

**Division 9**

**Interstate**

<b>Town/ County/PROJ CATEGORY</b>	<b>Project Description</b>	<b>Estimated Cost</b>
Rowan Co. I-3802 STATEWIDE	36780.1.2, NHIMF-85-2(61)55 I-85 from NC 73 in Cabarrus County to US 29-601 Connector in Rowan County. \$2,672,965.00 has previously been approved for preliminary engineering. Additional funds are requested.	\$4,300,000.00 Cost \$3,440,000.00 Fed. \$860,000.00 State

**Bridge**

Rowan Co. B-5160 DIVISION	42335.3.1, BRZ-1986(001) Replace Bridge #50 over Nails Branch on SR 1986. Funds are needed for construction of bridge replacement.	\$575,000.00 Cost \$460,000.00 Fed. \$115,000.00 State
---------------------------------	--	--

**Safety**

Statewide W-5700I DIVISION	46878.1.9, HSIP-000S(879) Division 9 - Signal Timing. Funds are needed for preliminary engineering.	\$5,000.00 Cost \$4,500.00 Fed. \$500.00 State
----------------------------------	---	--

**Rail Program**

Davidson Co. Z-5400IF DIVISION	43600.3.65, RR-2287(001) Railway-Highway Grade Crossing Safety Project at SR 2287 (Wafford Road) at Winston-Salem Southbound Railway; Crossing #849 843D near Southmont. Funds are needed for construction to install gates and flashers.	\$270,000.00 Cost \$243,000.00 Fed. \$27,000.00 State
--------------------------------------	---	---

**NCDOT December 2016 Board of Transportation Agenda  
Approval of Funds for Specific Federal - Aid Projects**

**M-19**

**Division 9 (Continued)**

**Rail Program**

<b>Town/ County/PROJ CATEGORY</b>	<b>Project Description</b>	<b>Estimated Cost</b>
Stokes Co. Z-5700IA DIVISION	44803.1.5, RR-1148(007) Railway-Highway Grade Crossing Safety Project. Multiple crossings along Yadkin Valley Railroad Tracks; SR 1148 (Surry Line Road) at Crossing # 721 961X in Pinnacle, Stokes County; and SR 2050 (Academy Street) at Crossing # 721 972K in Pilot Mountain in Surry County. Funds are needed for preliminary engineering.	\$2,000.00 Cost \$1,800.00 Fed. \$200.00 State
Stokes Co. Z-5700IA DIVISION	44803.3.5, RR-1148(007) Railway-Highway Grade Crossing Safety Project. Multiple crossings along Yadkin Valley Railroad Tracks; SR 1148 (Surry Line Road) at Crossing #721 961X in Pinnacle, Stokes County; and SR 2050 (Academy Street) at Crossing #721 972K in Pilot Mountain in Surry County. Funds are needed for construction to replace solar panel power with AC power.	\$38,000.00 Cost \$34,200.00 Fed. \$3,800.00 State
<b>Rural</b>		
Statewide R-5789A DIVISION	44919.3.2, TAP-0918(108) ADA (Americans with Disabilities Act) Curb Ramps at various locations with a population of <5000. Funds are needed for construction to install or upgrade ADA Ramps.	\$300,000.00 Cost \$240,000.00 Fed. \$60,000.00 State

**NCDOT December 2016 Board of Transportation Agenda  
Approval of Funds for Specific Federal - Aid Projects**

**M-20**

**Division 10**

**National Highway**

<b>Town/ County/PROJ CATEGORY</b>	<b>Project Description</b>	<b>Estimated Cost</b>
Mecklenburg Co. I-3311C STATEWIDE	34181.1.7, NHS-077-1(210) I-77 from I-277 to north of I-85, High Occupancy Toll (HOT) lanes and convert existing High Occupancy Vehicle (HOV) lanes to Hot lanes. \$4,662,330.00 has previously been approved for preliminary engineering. Additional funds are needed for preliminary engineering based on the latest estimate. <b>This is a Strategic Transportation Investments Transition project.</b>	\$900,000.00 Cost \$720,000.00 Fed. \$180,000.00 State

**Congestion Mitigation**

Mecklenburg Co. C-5540 EXEMPT	51010.3.3, CMS-1003(125) South Tryon Street, Nevin Road from Alpine Drive to Gibbon Road, Gibbon Road from Nevin Road to Sugar Creek Road, West Sugar Road from Bisaner Street and Mallard Creek Road. Funds are needed for construction of sidewalks.	\$701,500.00 Cost \$526,125.00 Fed. \$175,375.00 Local
Mecklenburg Co. C-5543 EXEMPT	51013.3.1, CMS-1003(133) I-77 Overpass on Sunset Road from I-77 to Statesville Road. Funds are needed for construction of sidewalks.	\$1,210,500.00 Cost \$907,875.00 Fed. \$302,625.00 Local

**NCDOT December 2016 Board of Transportation Agenda  
Approval of Funds for Specific Federal - Aid Projects**

**M-21**

**Division 10 (Continued)**

**Safety**

<b>Town/ County/PROJ CATEGORY</b>	<b>Project Description</b>	<b>Estimated Cost</b>
Statewide W-5700J DIVISION	46878.1.10, HSIP-000S(880) Division 10 - Signal Timing. Funds are needed for preliminary engineering.	\$140,000.00 Cost \$126,000.00 Fed. \$14,000.00 State
Union Co. W-5601DK DIVISION	50138.2.116, HSIP-1315(017) SR 1315 (New Town Road) intersecting with SR 2948 (Marvin School Road) and SR 1307 (Waxhaw Marvin Road) in Marvin. Funds are needed for full right of way.	\$400,000.00 Cost \$360,000.00 Fed. \$40,000.00 State

**NCDOT December 2016 Board of Transportation Agenda  
Approval of Funds for Specific Federal - Aid Projects**

**M-22**

**Division 10 (Continued)**

**Rural**

<b>Town/ County/PROJ CATEGORY</b>	<b>Project Description</b>	<b>Estimated Cost</b>
Statewide R-5790A DIVISION	44920.3.2, TAP-1001(066) ADA (Americans with Disabilities Act) Curb Ramps at various locations with a population of <5000. Funds are needed for construction to install or upgrade ADA Ramps.	\$80,000.00 Cost \$64,000.00 Fed. \$16,000.00 State
Statewide R-5790A DIVISION	44920.3.3, TAP-1001(067) ADA (Americans with Disabilities Act) Curb Ramps at various locations with a population of >5000. Funds are needed for construction to install or upgrade ADA Ramps.	\$130,000.00 Cost \$104,000.00 Fed. \$26,000.00 State
Statewide R-5790B DIVISION	44920.3.4, TAP-1001(068) ADA (Americans with Disabilities Act) Curb Ramps at various locations with a population of >5000. Funds are needed for construction to install or upgrade ADA Ramps.	\$120,000.00 Cost \$96,000.00 Fed. \$24,000.00 State
Statewide R-5790C DIVISION	44920.3.5, TAP-1001(69) ADA (Americans with Disabilities Act) Curb Ramps at various locations with a population of <5000. Funds are needed for construction to install or upgrade ADA Ramps.	\$60,000.00 Cost \$48,000.00 Fed. \$12,000.00 State
Statewide R-5790C DIVISION	44920.3.6, TAP-1001(070) ADA (Americans with Disabilities Act) Curb Ramps at various locations with a population of >5000. Funds are needed for construction to install or upgrade ADA Ramps.	\$80,000.00 Cost \$64,000.00 Fed. \$16,000.00 State
Statewide R-5790D DIVISION	44920.3.7, TAP-1001(071) ADA (Americans with Disabilities Act) Curb Ramps at various locations with a population of <5000. Funds are needed for construction to install or upgrade ADA Ramps.	\$45,000.00 Cost \$36,000.00 Fed. \$9,000.00 State
Statewide R-5790D DIVISION	44920.3.8, TAP-1001(072) ADA (Americans with Disabilities Act) Curb Ramps at various locations with a population of >5000. Funds are needed for construction to install or upgrade ADA Ramps.	\$80,000.00 Cost \$64,000.00 Fed. \$16,000.00 State

**NCDOT December 2016 Board of Transportation Agenda  
Approval of Funds for Specific Federal - Aid Projects**

**M-23**

**Division 10 (Continued)**

**Bicycle and Pedestrian**

<b>Town/ County/PROJ CATEGORY</b>	<b>Project Description</b>	<b>Estimated Cost</b>
Union Co. EB-5011 DIVISION	41125.3.1, STPEB-1015(014) Bearskin Creek Greenway from Dickenson Park to Creft Park. Funds are needed for construction of greenway. <b>This is a Strategic Transportation Investments Transition project.</b>	\$1,420,000.00 Cost \$1,136,000.00 Fed. \$284,000.00 State

**NCDOT December 2016 Board of Transportation Agenda  
Approval of Funds for Specific Federal - Aid Projects**

**M-24**

**Division 11**

**Appalachian**

<b>Town/ County/PROJ CATEGORY</b>	<b>Project Description</b>	<b>Estimated Cost</b>
Wilkes Co. R-5186 EXEMPT	45243.3.1, APD-1119(005) Wilkes Industrial Park-east of the intersection of River Road, Liberty Grove Road and Colonial Drive northeast to Liberty Grove Road in North Wilkesboro. \$1,006,381.00 has previously been approved for construction. Additional funds are requested.	\$9,212.00 Cost \$7,370.00 Fed. \$1,842.00 Local

**Bridge**

Wilkes Co. B-4977 DIVISION	39896.1.1, BRZ-1313(004) Replace Bridge #75 over Fish Dam Creek on SR 1313. \$40,625.00 has previously been approved for preliminary engineering. Additional funds are requested for additional design work.	\$75,000.00 Cost \$60,000.00 Fed. \$15,000.00 State
----------------------------------	--	---

**Safety**

Statewide W-5700K DIVISION	46878.1.11, HSIP-000S(881) Division 11 - Signal Timing. Funds are needed for preliminary engineering.	\$120,000.00 Cost \$108,000.00 Fed. \$12,000.00 State
----------------------------------	---	---

**Division 11 (Continued)**

**Rural**

<b>Town/ County/PROJ CATEGORY</b>	<b>Project Description</b>	<b>Estimated Cost</b>
Statewide R-5791A DIVISION	44921.3.2, TAP-1119(009) ADA (Americans with Disabilities Act) Curb Ramps at various locations with a population of <5000. Funds are needed for construction to install or upgrade ADA Ramps.	\$465,362.00 Cost \$372,290.00 Fed. \$93,072.00 State
Statewide R-5791A DIVISION	44921.3.3, TAP-1119(010) ADA (Americans with Disabilities Act) Curb Ramps at various locations with a population of >5000. Funds are needed for construction to install or upgrade ADA Ramps.	\$132,351.00 Cost \$105,881.00 Fed. \$26,470.00 State

**NCDOT December 2016 Board of Transportation Agenda  
Approval of Funds for Specific Federal - Aid Projects**

**M-26**

**Division 12**

**Safety**

<b>Town/ County/PROJ CATEGORY</b>	<b>Project Description</b>	<b>Estimated Cost</b>
Cleveland Co. W-5712G STATEWIDE	44858.3.7, HSIP-0085(029) I-85 Pavement marking improvements. Funds are needed for construction of pavement marking improvements.	\$340,000.00 Cost \$306,000.00 Fed. \$34,000.00 State
Iredell Co. W-5712C REGIONAL	44858.3.3, HSIP-000S(865) Various National Highway System (NHS) routes, from SR 2638 (Salisbury Highway) to US 70, US 64, NC 90, NC 150, I-77 and I-40, in Iredell County. Funds are needed for construction of guardrail end unit upgrades.	\$195,000.00 Cost \$175,500.00 Fed. \$19,500.00 State
Iredell Co. W-5712D REGIONAL	44858.3.4, HSIP-0115(010) NC 115 in Iredell County between Mecklenburg County Line and Wilkes County Line. Funds are needed for construction of guardrail end unit upgrades.	\$185,000.00 Cost \$166,500.00 Fed. \$18,500.00 State
Statewide W-5700L DIVISION	46878.1.12, HSIP-000S(882) Division 12 - Signal Timing. Funds are needed for preliminary engineering.	\$180,000.00 Cost \$162,000.00 Fed. \$18,000.00 State

**NCDOT December 2016 Board of Transportation Agenda  
Approval of Funds for Specific Federal - Aid Projects**

**M-27**

**Division 12 (Continued)**

**Rail Program**

<b>Town/ County/PROJ CATEGORY</b>	<b>Project Description</b>	<b>Estimated Cost</b>
Iredell Co. Z-5400LM DIVISION	43600.1.98, RR-2400(001) Railway-Highway Grade Crossing Safety Project at SR 2400 (Wiggins Road) at Norfolk Southern Railway Tracks; Crossing #721 610Y. Funds are needed for preliminary engineering.	\$46,000.00 Cost \$41,400.00 Fed. \$4,600.00 State

**Rural**

Statewide R-5792A DIVISION	44922.3.2, TAP-1229(018) ADA (Americans with Disabilities Act) Curb Ramps at various locations with a population of <5000. Funds are needed for construction to install or upgrade ADA Ramps.	\$186,006.00 Cost \$148,805.00 Fed. \$37,201.00 State
Statewide R-5792A DIVISION	44922.3.3, TAP-1229(019) ADA (Americans with Disabilities Act) Curb Ramps at various locations with a population of >5000. Funds are needed for construction to install or upgrade ADA Ramps.	\$140,859.00 Cost \$112,687.00 Fed. \$28,172.00 State
Statewide R-5792B DIVISION	44922.3.4, TAP-1229(020) ADA (Americans with Disabilities Act) Curb Ramps at various locations with a population of <5000. Funds are needed for construction to install or upgrade ADA Ramps.	\$141,277.00 Cost \$113,022.00 Fed. \$28,255.00 State
Statewide R-5792B DIVISION	44922.3.5, TAP-1229(021) ADA (Americans with Disabilities Act) Curb Ramps at various locations with a population of >5000. Funds are needed for construction to install or upgrade ADA Ramps.	\$194,828.00 Cost \$155,862.00 Fed. \$38,966.00 State

**NCDOT December 2016 Board of Transportation Agenda  
Approval of Funds for Specific Federal - Aid Projects**

**M-28**

**Division 13**

**Interstate**

<b>Town/ County/PROJ CATEGORY</b>	<b>Project Description</b>	<b>Estimated Cost</b>
McDowell Co. I-5833 STATEWIDE	53039.3.1, NHPP-0040(026) I-40 from the Buncombe County Line to Bridge #30 and Bridge #31. Funds are needed for construction based on the estimate from the 12-Month Tentative Letting List published on October 12, 2016. This is a <b>Cash Flow</b> project with \$3,899,017.00 in SFY 17 and \$3,899,017.00 in SFY 18.	\$7,798,034.00 Cost \$6,238,427.00 Fed. \$1,559,607.00 State

**Bridge**

Burke Co. B-5398 DIVISION	46113.3.1, BRZ-1803(001) Replace Bridge #21 over Henry Fork River on SR 1803. Funds are needed for construction based on the estimate from the 12-Month Tentative Letting List published on October 12, 2016.	\$1,600,000.00 Cost \$1,280,000.00 Fed. \$320,000.00 State
---------------------------------	--	--

**Safety**

Buncombe Co. W-5713B DIVISION	44861.1.2, HSIP-1369(005) SR 1369 (Mount Carmel Road) near SR 1373 (Old Country Home Road) near Asheville. Funds are needed for preliminary engineering.	\$2,000.00 Cost \$1,800.00 Fed. \$200.00 State
Buncombe Co. W-5713C REGIONAL	44861.1.3, HSIP-074A(006) Guardrail end unit upgrades on US 74A and US 19 Business. Funds are needed for preliminary engineering.	\$5,000.00 Cost \$4,500.00 Fed. \$500.00 State

**December 1, 2016**

**NCDOT December 2016 Board of Transportation Agenda  
Approval of Funds for Specific Federal - Aid Projects**

**M-29**

**Division 13 (Continued)**

**Safety**

<b>Town/ County/PROJ CATEGORY</b>	<b>Project Description</b>	<b>Estimated Cost</b>
Buncombe Co. W-5713D REGIONAL	44861.1.4, HSIP-0151(017) Guardrail end unit upgrades on NC 151, NC 251, NC 280 and NC 694. Funds are needed for preliminary engineering.	\$5,000.00 Cost \$4,500.00 Fed. \$500.00 State
Buncombe Co. W-5713E STATEWIDE	44861.1.5, HSIP-0040(051) Guardrail end unit upgrades on I-40, I-240, US 19-23, US 25, US 25A and US 70. Funds are needed for preliminary engineering.	\$5,000.00 Cost \$4,500.00 Fed. \$500.00 State
Buncombe Co. W-5713F REGIONAL	44861.1.6, HSIP-0009(008) Guardrail end unit upgrades on NC 9, NC 63, NC 81, NC 112, NC 146 and NC 191. Funds are needed for preliminary engineering.	\$5,000.00 Cost \$4,500.00 Fed. \$500.00 State
Madison Co. W-5713G REGIONAL	44861.1.7, HSIP-0025(038) Guardrail end unit upgrades on US 25 - 70 Northbound. Funds are needed for preliminary engineering.	\$5,000.00 Cost \$4,500.00 Fed. \$500.00 State

**NCDOT December 2016 Board of Transportation Agenda  
Approval of Funds for Specific Federal - Aid Projects**

**M-30**

**Division 13 (Continued)**

**Safety**

<b>Town/ County/PROJ CATEGORY</b>	<b>Project Description</b>	<b>Estimated Cost</b>
Madison Co. W-5713H REGIONAL	44861.1.8, HSIP-0025(039) Guardrail end unit upgrades on US 25 - 70 Northbound and Southbound. Funds are needed for preliminary engineering.	\$5,000.00 Cost \$4,500.00 Fed. \$500.00 State
Madison Co. W-5713I REGIONAL	44861.1.9, HSIP-0025(040) Guardrail end unit upgrades on US 25 - 70 Southbound. Funds are needed for preliminary engineering.	\$5,000.00 Cost \$4,500.00 Fed. \$500.00 State
Rutherford Co. W-5713J REGIONAL	44861.1.10, HSIP-0064(189) US 64 from US 74A in Rutherford County to 400 Feet southwest of SR 1949 (Salem Road) in Burke County. Funds are needed for preliminary engineering.	\$30,000.00 Cost \$27,000.00 Fed. \$3,000.00 State
Statewide W-5700M DIVISION	46878.1.13, HSIP-000S(883) Division 13 - Signal Timing. Funds are needed for preliminary engineering.	\$60,000.00 Cost \$54,000.00 Fed. \$6,000.00 State

**NCDOT December 2016 Board of Transportation Agenda  
Approval of Funds for Specific Federal - Aid Projects**

**M-31**

**Division 13 (Continued)**

**Rural**

<b>Town/ County/PROJ CATEGORY</b>	<b>Project Description</b>	<b>Estimated Cost</b>
Statewide R-5793A DIVISION	44923.3.2, TAP-1302(070) ADA (Americans with Disabilities Act) Curb Ramps at various locations with a population of <5000. Funds are needed for construction to install or upgrade ADA Ramps.	\$137,500.00 Cost \$110,000.00 Fed. \$27,500.00 State
Statewide R-5793A DIVISION	44923.3.3, TAP-1302(071) ADA (Americans with Disabilities Act) Curb Ramps at various locations with a population of >5000. Funds are needed for construction to install or upgrade ADA Ramps.	\$92,500.00 Cost \$74,000.00 Fed. \$18,500.00 State
Statewide R-5793B DIVISION	44923.3.4, TAP-1302(072) ADA (Americans with Disabilities Act) Curb Ramps at various locations with a population of <5000. Funds are needed for construction to install or upgrade ADA Ramps.	\$293,750.00 Cost \$235,000.00 Fed. \$58,750.00 State
Statewide R-5793B DIVISION	44923.3.5, TAP-1302(073) ADA (Americans with Disabilities Act) Curb Ramps at various locations with a population of >5000. Funds are needed for construction to install or upgrade ADA Ramps.	\$338,750.00 Cost \$271,000.00 Fed. \$67,750.00 State

**NCDOT December 2016 Board of Transportation Agenda  
Approval of Funds for Specific Federal - Aid Projects**

**M-32**

**Division 13 (Continued)**

**Bicycle and Pedestrian**

<b>Town/ County/PROJ CATEGORY</b>	<b>Project Description</b>	<b>Estimated Cost</b>
Buncombe Co. EB-5790 DIVISION	46444.1.1, TAPDA-1302(074) On-street crossings and connections for bicyclist and pedestrians in East of the Riverway in Asheville. Funds are needed for preliminary engineering.	\$120,000.00 Cost \$96,000.00 Fed. \$24,000.00 Local

**NCDOT December 2016 Board of Transportation Agenda  
Approval of Funds for Specific Federal - Aid Projects**

**M-33**

**Division 14**

**Safety**

<b>Town/ County/PROJ CATEGORY</b>	<b>Project Description</b>	<b>Estimated Cost</b>
Haywood Co. W-5601GP DIVISION	50138.2.199, HSIP-1613(009) SR 1613 (Beaver Dam Road) between SR 1663 (Great Oak Drive) and SR 1640 (Hilla Villa Road) near Canton. Funds are needed for full right of way.	\$15,000.00 Cost \$13,500.00 Fed. \$1,500.00 State
Statewide W-5700N DIVISION	46878.1.14, HSIP-000S(884) Division 14 - Signal Timing. Funds are needed for preliminary engineering.	\$330,000.00 Cost \$297,000.00 Fed. \$33,000.00 State
Transylvania Co. W-5601FM DIVISION	50138.3.170, HSIP-1540(006) SR 1540 (Wilson Road) near SR 1504, near Brevard. Funds are needed for construction of safety improvements.	\$200,000.00 Cost \$180,000.00 Fed. \$20,000.00 State

**NCDOT December 2016 Board of Transportation Agenda  
Approval of Funds for Specific Federal - Aid Projects**

**M-34**

**Division 14 (Continued)**

**Rural**

<b>Town/ County/PROJ CATEGORY</b>	<b>Project Description</b>	<b>Estimated Cost</b>
Jackson Co. R-4753 DIVISION	39999.3.3, STP-0107(010) NC 107 from north of SR 1002 (Old Cullowhee Road) to NC 281. Funds are needed for construction based on the estimate from the 12-Month Tentative Letting List published on October 12, 2016.	\$22,500,000.00 Cost \$18,000,000.00 Fed. \$4,500,000.00 State
Statewide R-5794A DIVISION	44910.1.3, TAP-1420(007) ADA (Americans with Disabilities Act) Curb Ramps at various locations with a population of <5000. Funds are needed for preliminary engineering.	\$20,250.00 Cost \$16,200.00 Fed. \$4,050.00 State
Statewide R-5794A DIVISION	44910.3.3, TAP-1420(007) ADA (Americans with Disabilities Act) Curb Ramps at various locations with a population of <5000. Funds are needed for construction to install or upgrade ADA Ramps.	\$160,000.00 Cost \$128,000.00 Fed. \$32,000.00 State
Statewide R-5794B DIVISION	44910.1.4, TAP-1420(008) ADA (Americans with Disabilities Act) Curb Ramps at various locations with a population of <5000. Funds are needed for preliminary engineering.	\$23,850.00 Cost \$19,080.00 Fed. \$4,770.00 State
Statewide R-5794B DIVISION	44910.3.4, TAP-1420(008) ADA (Americans with Disabilities Act) Curb Ramps at various locations with a population of <5000. Funds are needed for construction to install or upgrade ADA Ramps.	\$160,000.00 Cost \$128,000.00 Fed. \$32,000.00 State

**NCDOT December 2016 Board of Transportation Agenda  
Approval of Funds for Specific Federal - Aid Projects**

**M-35**

**Division 14 (Continued)**

**Rural**

<b>Town/ County/PROJ CATEGORY</b>	<b>Project Description</b>	<b>Estimated Cost</b>
Statewide R-5794C DIVISION	44910.1.5, TAP-1420(009) ADA (Americans with Disabilities Act) Curb Ramps at various locations with a population of <5000. Funds are needed for preliminary engineering.	\$26,100.00 Cost \$20,880.00 Fed. \$5,220.00 State
Statewide R-5794C DIVISION	44910.3.5, TAP-1420(009) ADA (Americans with Disabilities Act) Curb Ramps at various locations with a population of <5000. Funds are needed for construction to install or upgrade ADA Ramps.	\$180,000.00 Cost \$144,000.00 Fed. \$36,000.00 State
Statewide R-5794D DIVISION	44910.1.6, TAP-1420(010) ADA (Americans with Disabilities Act) Curb Ramps at various locations with a population of >5000. Funds are needed for preliminary engineering.	\$22,500.00 Cost \$18,000.00 Fed. \$4,500.00 State
Statewide R-5794D DIVISION	44910.3.6, TAP-1420(010) ADA (Americans with Disabilities Act) Curb Ramps at various locations with a population of >5000. Funds are needed for construction to install or upgrade ADA Ramps.	\$100,000.00 Cost \$80,000.00 Fed. \$20,000.00 State

**NCDOT December 2016 Board of Transportation Agenda  
Approval of Funds for Specific Federal - Aid Projects**

**M-36**

**Statewide**

**Safety**

<b>Town/ County/PROJ CATEGORY</b>	<b>Project Description</b>	<b>Estimated Cost</b>	
Statewide W-57000 DIVISION	46878.1.15, HSIP-000S(885) Statewide - Signal Timing. Funds are needed for preliminary engineering.	\$230,000.00 \$207,000.00 \$23,000.00	Cost Fed. State

**Planning and Research**

Statewide M-0487D STATEWIDE	46403.1.4, SHRP-000S(869) Strategic Highway Research Program 2 (SHRP2) R07- Performance Specifications for Rapid Highway Renewal. Funds are needed for the FY 2014 allocation.	\$50,000.00 \$50,000.00	Cost Fed.
-----------------------------------	---	----------------------------	--------------

**ITEM M SUMMARY - 127 PROJECT(S) - (TOTAL FEDERAL AND STATE) \$61,831,079.00**

**Funding for Transition Period projects is excluded from the Transportation Investment Strategy Formula.**

**December 1, 2016**

## REVISIONS TO THE 2016-2025 STIP

## HIGHWAY PROGRAM

## STIP ADDITIONS

## DIVISION 10

* EB-5829	MATTHEWS, CONSTRUCT FOUR MILE CREEK	CONSTRUCTION	FY 2017 -	\$1,114,000	(STBGDA)
MECKLENBURG	GREENWAY CROSSING UNDER SR 3448 (SOUTH		FY 2017 -	\$279,000	(L)
PROJ.CATEGORY	TRADE STREET)			\$1,393,000	
DIVISION	<u>ADD PROJECT AT REQUEST OF MPO</u>				

* U-5987	INDIAN TRAIL, UNIONVILLE-INDIAN TRAIL ROAD AND	RIGHT-OF-WAY	FY 2017 -	\$270,000	(STBGDA)
UNION	SARDIS ROAD. CONSTRUCT INTERSECTION		FY 2017 -	\$90,000	(L)
PROJ.CATEGORY	IMPROVEMENTS.	CONSTRUCTION	FY 2018 -	\$1,680,000	(STBGDA)
DIVISION	<u>ADD PROJECT AT REQUEST OF MPO</u>		FY 2018 -	\$560,000	(L)
				\$2,600,000	

## DIVISION 11

* R-5805	CAJAH'S MOUNTAIN, INTERSECTION OF CONNELLY	UTILITIES	FY 2017 -	\$80,000	(STBGDA)
CALDWELL	SPRINGS ROAD AND CAJAH'S MOUNTAIN ROAD.		FY 2017 -	\$20,000	(S(M))
PROJ.CATEGORY	CONSTRUCT LEFT TURN LANE.	CONSTRUCTION	FY 2017 -	\$620,000	(STBGDA)
DIVISION	<u>ADD PROJECT AT REQUEST OF MPO.</u>		FY 2017 -	\$155,000	(S(M))
				\$875,000	

## DIVISION 12

* EB-5825	NEWTON, CONSTRUCT WEST A STREET BIKE AND	CONSTRUCTION	FY 2018 -	\$1,520,000	(STBGDA)
CATAWBA	PEDESTRIAN IMPROVEMENTS.		FY 2018 -	\$380,000	(L)
PROJ.CATEGORY	<u>PROJECT ADDED AT REQUEST OF MPO.</u>			\$1,900,000	
DIVISION					

* EB-5826	HICKORY, MAIN AVENUE NE/NW, LENOIR-RYHNE	CONSTRUCTION	FY 2018 -	\$3,600,000	(STBGDA)
CATAWBA	BOULEVARD TO 9TH STREET NW. CONSTRUCT		FY 2018 -	\$900,000	(L)
PROJ.CATEGORY	PEDESTRIAN WALKWAY AND BRIDGE OVER NC 127.			\$4,500,000	
DIVISION	<u>PROJECT ADDED AT REQUEST OF MPO.</u>				

* EB-5828	CLAREMONT, CENTENNIAL BOULEVARD, NORTH	CONSTRUCTION	FY 2018 -	\$458,000	(STBGDA)
CATAWBA	OXFORD STREET TO NORTH LOOKOUT STREET.		FY 2018 -	\$115,000	(L)
PROJ.CATEGORY	CONSTRUCT SIDEWALK.			\$573,000	
DIVISION	<u>PROJECT ADDED AT REQUEST OF MPO.</u>				

\* INDICATES FEDERAL AMENDMENT

Thursday, December 01, 2016

## REVISIONS TO THE 2016-2025 STIP

## HIGHWAY PROGRAM

## STIP ADDITIONS

## DIVISION 12

* I-3819C	BROOKDALE DRIVE-US 21 CONNECTOR	RIGHT-OF-WAY	FY 2018 -	\$1,063,000	(STBGDA)
IREDELL	<u>ADD PROJECT AT REQUEST OF MPO.</u>		FY 2018 -	\$477,000	(L)
PROJ.CATEGORY		CONSTRUCTION	FY 2018 -	\$820,000	(STBGDA)
DIVISION			FY 2018 -	<u>\$368,000</u>	(L)
				\$2,728,000	

## DIVISION 13

* EB-5827	FONTA FLORA TRAIL, FONTA FLORA STATE TRAIL,	ENGINEERING	FY 2017 -	\$160,000	(STBGDA)
BURKE	INTERSECTION OF LAUREL RIDGE COURT AND NORTH		FY 2017 -	\$84,000	(L)
PROJ.CATEGORY	POWERHOUSE ROAD TO THE PROPOSED HARRIS	RIGHT-OF-WAY	FY 2018 -	\$410,000	(STBGDA)
DIVISION	WHISNANT TRAILHEAD AT THE INTERSECTION OF		FY 2018 -	<u>\$216,000</u>	(L)
	HARRY WHISNANT ROAD AND COBB ROAD.			\$870,000	
	CONSTRUCT BICYCLE AND PEDESTRIAN FACILITY.				
	<u>PROJECT ADDED AT REQUEST OF MPO.</u>				

## STIP MODIFICATIONS

## DIVISION 2

B-4863	SR 1335 (ISLAND ROAD), REPLACE LIFT SPAN ON	RIGHT-OF-WAY	FY 2018 -	\$1,325,000	(T)
CARTERET	BRIDGE 150073 AND BRIDGE 150096 OVER THE	UTILITIES	FY 2018 -	\$191,000	(T)
PROJ.CATEGORY	STRAITS AT HARKERS ISLAND.	CONSTRUCTION	FY 2020 -	\$11,167,000	(T)
DIVISION	<u>TO ALLOW ADDITIONAL TIME FOR PLANNING AND</u>		FY 2021 -	\$11,167,000	(T)
	<u>DESIGN, DELAY RIGHT-OF-WAY FROM FY 17 TO FY 18.</u>		FY 2022 -	<u>\$11,166,000</u>	(T)
				\$35,016,000	

## DIVISION 3

U-5508	NC 24 (LEJEUNE BOULEVARD), NC 53 (WESTERN	RIGHT-OF-WAY	FY 2019 -	\$420,000	(T)
ONSLow	BOULEVARD) IN JACKSONVILLE. UPGRADE	CONSTRUCTION	FY 2021 -	<u>\$2,400,000</u>	(T)
PROJ.CATEGORY	INTERSECTION AND DRAINAGE.			\$2,820,000	
STATEWIDE	<u>TO COMBINE SCHEDULE WITH STIP PROJECT U-5736,</u>				
	<u>DELAY RIGHT-OF-WAY FROM FY 17 TO FY 19 AND</u>				
	<u>CONSTRUCTION FROM FY 18 TO FY 21.</u>				

## DIVISION 4

* EB-5507	WILSON, SR 1184 (TARBORO STREET), FAIRVIEW	CONSTRUCTION	FY 2017 -	<u>\$225,000</u>	(TAP)
WILSON	AVENUE TO VINSON-BYNUM SCHOOL. ADD SIDEWALK.			\$225,000	
PROJ.CATEGORY	<u>TO ALLOW ADDITIONAL TIME FOR PLANNING AND</u>				
TRANSITION	<u>DESIGN BY THE CITY. DELAY CONSTRUCTION FROM</u>				
	<u>FY 16 TO FY 17.</u>				

\* INDICATES FEDERAL AMENDMENT

## REVISIONS TO THE 2016-2025 STIP

HIGHWAY PROGRAM  
STIP MODIFICATIONS

## DIVISION 5

B-4750 FRANKLIN PROJ.CATEGORY HWY FUNDS	SR 1719 (BRANNON ROAD), REPLACE BRIDGE 340090 OVER NORRIS CREEK. <u>ACCELERATE RIGHT-OF-WAY FROM FY 19 TO FY 17 AND CONSTRUCTION FROM FY 20 TO FY 18 PER LATEST DIVISION SCHEDULE.</u>	RIGHT-OF-WAY CONSTRUCTION	FY 2017 - FY 2018 -	\$120,000 \$1,200,000	(HFB) (HFB)
				\$1,320,000	
B-5102 PERSON PROJ.CATEGORY HWY FUNDS	US 158, REPLACE BRIDGE 720011 OVER SOUTH HYCO CREEK. <u>TO ALLOW ADDITIONAL TIME FOR R/W ACQUISITION, DELAY CONSTRUCTION FROM FY 17 TO FY 18</u>	CONSTRUCTION	FY 2018 -	\$2,200,000 \$2,200,000	(HFB)
B-5130 WAKE PROJ.CATEGORY DIVISION	SR 1321 (AVENT FERRY ROAD), REPLACE BRIDGE 910318 OVER LAKE JOHNSON IN RALEIGH. <u>TO ALLOW COORDINATION WITH B-5556 CITY LET SCHEDULE, DELAY RIGHT OF WAY FROM FY 16 TO FY 17 AND CONSTRUCTION FROM FY 17 TO FY 18.</u>	RIGHT-OF-WAY CONSTRUCTION	FY 2017 - FY 2018 -	\$314,000 \$4,200,000	(STPON) (STPON)
				\$4,514,000	
B-5145 PERSON PROJ.CATEGORY HWY FUNDS	SR 1343 (JOHN BREWER ROAD), REPLACE BRIDGE 720050 OVER SOUTH HYCO CREEK. <u>TO ALLOW ADDITIONAL TIME TO COMPLETE THE DESIGN PHASE, DELAY RIGHT-OF-WAY FROM FY 17 TO FY 18. PROJECT TO BE LET WITH B-5322.</u>	RIGHT-OF-WAY CONSTRUCTION	FY 2018 - FY 2018 -	\$300,000 \$3,000,000	(HFB) (HFB)
				\$3,300,000	
B-5556 WAKE PROJ.CATEGORY DIVISION	LAKE DAM ROAD, REPLACE BRIDGE 910490 OVER WALNUT CREEK IN RALEIGH. <u>TO ALLOW ADDITIONAL TIME FOR THE CITY TO COMPLETE THE DESIGN PHASE, DELAY RIGHT-OF- WAY FROM FY 16 TO FY 17.</u>	RIGHT-OF-WAY CONSTRUCTION	FY 2017 - FY 2017 - FY 2017 - FY 2017 -	\$60,000 \$15,000 \$600,000 \$150,000	(STPOFF) (L) (STPOFF) (L)
				\$825,000	
B-5677 GRANVILLE PROJ.CATEGORY HWY FUNDS	SR 1724 (NORTHSIDE ROAD), REPLACE BRIDGE 380042 OVER LEDGE CREEK. <u>TO ALLOW ADDITIONAL TIME FOR PLANNING AND DESIGN, DELAY CONSTRUCTION FROM FY 17 TO FY 18.</u>	RIGHT-OF-WAY CONSTRUCTION	FY 2017 - FY 2018 -	\$80,000 \$775,000	(HFB) (HFB)
				\$855,000	

\* INDICATES FEDERAL AMENDMENT

## REVISIONS TO THE 2016-2025 STIP

HIGHWAY PROGRAM  
STIP MODIFICATIONS

## DIVISION 5

B-5682 GRANVILLE PROJ.CATEGORY HWY FUNDS	SR 1400 (GRASSY CREEK - VIRGILINA ROAD), REPLACE BRIDGE 380129 OVER BEECH CREEK. <u>TO ALLOW ADDITIONAL TIME FOR PLANNING AND DESIGN, DELAY CONSTRUCTION FROM FY 17 TO FY 18.</u>	RIGHT-OF-WAY CONSTRUCTION	FY 2017 - \$75,000 (HFB) FY 2018 - <u>\$720,000</u> (HFB) \$795,000
B-5687 WARREN PROJ.CATEGORY HWY FUNDS	SR 1620 (LICKSKILLET ROAD), REPLACE BRIDGE 920043 OVER SHOCCO CREEK. <u>TO ALLOW ADDITIONAL TIME FOR PLANNING AND DESIGN, DELAY CONSTRUCTION FROM FY 17 TO FY 18.</u>	RIGHT-OF-WAY CONSTRUCTION	FY 2017 - \$115,000 (HFB) FY 2018 - <u>\$1,150,000</u> (HFB) \$1,265,000
C-5163 WAKE PROJ.CATEGORY EXEMPT	CRABTREE CREEK GREENWAY, CONSTRUCT A CONNECTOR BETWEEN CAPITAL AREA GREENWAY SYSTEM AND THE MORRISVILLE GREENWAY SYSTEM IN CARY. <u>TO ALLOW ADDITIONAL TIME FOR PROCESSING OF FUNDING AUTHORIZATION REQUEST, DELAY CONSTRUCTION FROM FY 16 TO FY 17.</u>	CONSTRUCTION	FY 2017 - \$3,630,000 (CMAQ) FY 2017 - <u>\$908,000</u> (L) \$4,538,000
* C-5183B DURHAM PROJ.CATEGORY EXEMPT	SR 1945 (S. ALSTON AVE.), SR 1171 (RIDDLE RD.) TO CAPPS ST. <u>AT REQUEST OF TRANSPORTATION PLANNING BRANCH AND MPO ADD RIGHT-OF-WAY IN FY 17 NOT PREVIOUSLY PROGRAMMED, AND DELAY CONSTRUCTION FROM FY 17 TO FY18.</u>	RIGHT-OF-WAY CONSTRUCTION	FY 2017 - \$79,000 (CMAQ) FY 2017 - \$20,000 (L) FY 2018 - \$565,000 (CMAQ) FY 2018 - <u>\$141,000</u> (L) \$805,000
C-5569 GRANVILLE PROJ.CATEGORY EXEMPT	VARIOUS, CITY OF OXFORD. CONSTRUCT SIDEWALK AND CROSSWALK ENHANCEMENTS AT VARIOUS LOCATIONS. <u>TO ALLOW TOWN ADDITIONAL TIME FOR RIGHT-OF- WAY ACQUISITION, DELAY CONSTRUCTION FROM FY 16 TO FY 17.</u>	CONSTRUCTION	FY 2017 - \$184,000 (CMAQ) FY 2017 - \$46,000 (L) \$230,000
* I-5700 WAKE PROJ.CATEGORY STATEWIDE	I-40, SR 3015 (AIRPORT BOULEVARD). REVISE INTERCHANGE AND CONSTRUCT AUXILIARY LANE ON I-40 WESTBOUND FROM SR 3015 (AIRPORT BOULEVARD) TO I-540. <u>REVISE DESCRIPTION TO ADD AUXILIARY LANE ON I- 40 WESTBOUND AT REQUEST OF PRECONSTRUCTION.</u>	RIGHT-OF-WAY CONSTRUCTION	FY 2019 - \$920,000 (NHP) FY 2020 - \$2,875,000 (NHP) FY 2021 - <u>\$2,875,000</u> (NHP) \$6,670,000

\* INDICATES FEDERAL AMENDMENT

## REVISIONS TO THE 2016-2025 STIP

HIGHWAY PROGRAM  
STIP MODIFICATIONS

## DIVISION 5

I-5819	I-85, NORTH OF NC 56 IN GRANVILLE COUNTY TO US	CONSTRUCTION	FY 2017 -	<u>\$1,000,000</u>	(NHPIM)
GRANVILLE	158 IN VANCE COUNTY. DRAINAGE REHABILITATION.			\$1,000,000	
VANCE	<u>TO ALLOW ADDITIONAL TIME FOR PLANNING AND</u>				
PROJ.CATEGORY	<u>DESIGN, DELAY CONSTRUCTION FROM FY 16 TO FY 17</u>				
STATEWIDE					

I-5843	I-85, NORTH OF NC 56 IN GRANVILLE COUNTY TO US	CONSTRUCTION	FY 2017 -	<u>\$2,000,000</u>	(NHPIM)
GRANVILLE	158 IN VANCE COUNTY. STRUCTURE AND SIGNING			\$2,000,000	
VANCE	REHABILITATION.				
PROJ.CATEGORY	<u>TO ALLOW ADDITIONAL TIME TO COMPLETE</u>				
STATEWIDE	<u>STRUCTURE PLANS, DELAY CONSTRUCTION FROM</u>				
	<u>FY 16 TO FY 17.</u>				

## DIVISION 7

R-4707	US 29; SR 4771 (REEDY FORK PARKWAY); SR 2526	RIGHT-OF-WAY	FY 2019 -	\$3,220,000	(T)
GUILFORD	(SUMMIT AVENUE), NORTH OF SR 2641 (BRYAN PARK	UTILITIES	FY 2019 -	<u>\$982,000</u>	(T)
PROJ.CATEGORY	ROAD) TO US 29 / SR 4771 (REEDY FORK PARKWAY)			\$4,202,000	
REGIONAL	INTERCHANGE IN GREENSBORO. IMPROVE				
	ROADWAY, MODIFY INTERCHANGE AND REPLACE				
	BRIDGE 400360.				
	<u>REVISE SOUTHWEST TERMINUS AND ROUTE</u>				
	<u>DESCRIPTION TO REFLECT CORRECT</u>				
	<u>PLANNING/ENVIRONMENTAL SCOPE.</u>				

Y-4807B	LOWDERMILK STREET SYKES AVENUE, PINE STREET	RIGHT-OF-WAY	FY 2017 -	\$800,000	(STBGDA)
GUILFORD	CROSSING CLOSURE AND LOWDERMILK STREET /		FY 2017 -	\$160,000	(L)
PROJ.CATEGORY	SYKES AVENUE REALIGNMENT IN GREENSBORO.	CONSTRUCTION	FY 2018 -	<u>\$1,100,000</u>	(O)
DIVISION	<u>AT REQUEST OF CITY AND RAIL DIVISION, DELAY</u>			\$2,060,000	
	<u>RIGHT-OF-WAY FROM FY 16 TO FY 17 AND</u>				
	<u>CONSTRUCTION FROM FY 17 TO FY 18.</u>				

## DIVISION 8

EB-5521	NC 134 (NORTH MAIN STREET); SR 1005 (SOUTH MAIN,	CONSTRUCTION	FY 2017 -	<u>\$595,000</u>	(STPEB)
MONTGOMERY	SR 1323 (OKEEWEMEE ROAD) TO BARNHILL STREET			\$595,000	
PROJ.CATEGORY	IN TROY. CONSTRUCT SIDEWALKS.				
TRANSITION	<u>TO ALLOW ADDITIONAL TIME FOR TOWN TO DECIDE</u>				
	<u>WHETHER TO RE-LET PROJECT, DELAY</u>				
	<u>CONSTRUCTION FROM FY 16 TO FY 17.</u>				

\* INDICATES FEDERAL AMENDMENT

Thursday, December 01, 2016

## REVISIONS TO THE 2016-2025 STIP

HIGHWAY PROGRAM  
STIP MODIFICATIONS

## DIVISION 10

C-5503 CABARRUS PROJ.CATEGORY EXEMPT	US 601 NC 24/NC 27, US 601 AND NC 24/NC 27 IN MIDLAND. CONSTRUCT SIDEWALKS. <u>TO ALLOW ADDITIONAL TIME FOR PLANNING, DELAY CONSTRUCTION FROM FY 16 TO FY 17</u>	ENGINEERING  CONSTRUCTION	FY 2017 - \$11,000 (CMAQ) FY 2017 - \$3,000 (L) FY 2017 - \$101,000 (CMAQ) FY 2017 - \$25,000 (L)	
			\$140,000	
C-5533 MECKLENBURG PROJ.CATEGORY DIVISION	CHARLOTTE, SR 5469 (SHOPTON ROAD) AND SR 1156 (BEAM ROAD) IN CHARLOTTE. CONSTRUCT ROUNDBOUT. <u>TO ALLOW ADDITIONAL TIME FOR RIGHT-OF-WAY ACQUISITION, DELAY RIGHT-OF-WAY FROM FY 16 TO FY 17 AND CONSTRUCTION FROM FY 17 TO FY 18</u>	RIGHT-OF-WAY  CONSTRUCTION	FY 2017 - \$129,000 (CMAQ) FY 2017 - \$300,000 (STBGDA) FY 2017 - \$121,000 (L) FY 2018 - \$867,000 (CMAQ) FY 2018 - \$384,000 (STBGDA) FY 2018 - \$482,000 (L)	
			\$2,283,000	
C-5538 MECKLENBURG PROJ.CATEGORY DIVISION	CHARLOTTE, INTERSECTION OF TUCKASEEGEE- BERRYHILL-THRIFT ROADS IN CHARLOTTE. CONSTRUCT A TRAFFIC CIRCLE. <u>TO ALLOW ADDITIONAL TIME FOR RIGHT-OF-WAY ACQUISITION, DELAY RIGHT-OF-WAY FROM FY 16 TO FY 17 AND CONSTRUCTION FROM FY 17 TO FY 18</u>	ENGINEERING RIGHT-OF-WAY  CONSTRUCTION	FY 2017 - \$240,000 (L) FY 2017 - \$50,000 (CMAQ) FY 2017 - \$250,000 (STBGDA) FY 2017 - \$98,000 (L) FY 2018 - \$1,797,000 (CMAQ) FY 2018 - \$1,053,000 (STBGDA) FY 2018 - \$712,000 (L)	
			\$4,200,000	
C-5543 MECKLENBURG PROJ.CATEGORY EXEMPT	SUNSET ROAD, SUNSET ROAD, I-77 TO STATESVILLE ROAD IN CHARLOTTE. CONSTRUCT SIDEWALKS ON SOUTH SIDE AND INSTALL SIDEWALK ON THE I-77 OVERPASS. <u>TO ALLOW ADDITIONAL TIME FOR RIGHT OF WAY, DELAY CONSTRUCTION FROM FY 16 TO FY 17</u>	CONSTRUCTION	FY 2017 - \$1,073,000 (CMAQ) FY 2017 - \$358,000 (L)	
			\$1,431,000	
EB-4717 STANLY PROJ.CATEGORY TRANSITION	LOCUST, CONSTRUCT BIKE/PEDESTRIAN TRAIL ALONG TOWN SEWER EASEMENTS IN LOCUST. <u>TO ALLOW ADDITIONAL TIME FOR PLANNING DELAY CONSTRUCTION FROM FY 16 TO FY 17</u>	CONSTRUCTION	FY 2017 - \$250,000 (STPEB) \$250,000	
EB-5783 MECKLENBURG PROJ.CATEGORY DIVISION	MATTHEWS, SAM NEWELL ROAD MULTI-USE PATH, RICE ROAD TO CROWN POINT ELEMENTARY SCHOOL. CONSTRUCT GREENWAY. <u>TO ALLOW ADDITIONAL TIME FOR PLANNING PER REQUEST FROM MPO. DELAY RIGHT-OF-WAY FROM FY 17 TO FY 18 AND CONSTRUCTION FROM FY 18 TO FY 19</u>	RIGHT-OF-WAY  CONSTRUCTION	FY 2018 - \$107,000 (STBGDA) FY 2018 - \$27,000 (L) FY 2019 - \$213,000 (STBGDA) FY 2019 - \$53,000 (L)	
			\$400,000	

\* INDICATES FEDERAL AMENDMENT

## REVISIONS TO THE 2016-2025 STIP

HIGHWAY PROGRAM  
STIP MODIFICATIONS

## DIVISION 10

* P-5705B	CHARLOTTE, CHARLOTTE GATEWAY STATION	ENGINEERING	FY 2017 -	\$9,500,000	(STBGDA)
MECKLENBURG	<u>ADD PRELIMINARY ENGINEERING IN FY 17 AND</u>	CONSTRUCTION	FY 2017 -	\$25,000,000	(DP)
PROJ.CATEGORY	<u>CONSTRUCTION IN FY 17 NOT PREVIOUSLY</u>		FY 2017 -	\$5,500,000	(STBGDA)
REGIONAL	<u>PROGRAMMED AT THE REQUEST OF THE MPO</u>		FY 2017 -	<u>\$27,000,000</u>	(T)
				\$67,000,000	

* R-3329	US 74 BYPASS, I-485 (CHARLOTTE OUTER LOOP) TO	CONSTRUCTION	FY 2017 -	\$280,500,000	(BOND R)
MECKLENBURG	PROJECT R-2559 (US 74 MONROE BYPASS). MULTI-			\$280,500,000	
UNION	LANE FREEWAY ON NEW LOCATION.				
PROJ.CATEGORY	<u>MODIFY PROJECT FUNDING TO REFLECT UPDATED</u>				
TRANSITION	<u>PLAN OF FINANCE. FUNDING REPRESENTS \$114 M IN</u>				
	<u>REVENUE BONDS AND \$166.5 M IN TIFIA LOAN.</u>				

U-5703	US 74 (ROOSEVELT BLVD), SR 1514 (ROCKY RIVER	RIGHT-OF-WAY	FY 2017 -	\$400,000	(T)
UNION	ROAD) INTERSECTION. RECONFIGURE TO	CONSTRUCTION	FY 2018 -	\$1,750,000	(T)
PROJ.CATEGORY	SUPERSTREET.			\$2,150,000	
STATEWIDE	<u>TO ALLOW ADDITIONAL TIME FOR DESIGN AT</u>				
	<u>REQUEST OF THE CITY OF MONROE DELAY</u>				
	<u>CONSTRUCTION FROM FY 17 TO 18</u>				

## DIVISION 11

* R-5775	GRANITE FALLS, INTERSECTION OF US 321 AND SR	ENGINEERING	FY 2017 -	\$120,000	(STBGDA)
CALDWELL	1109 (PINWOODS ROAD EXTENSION). CONSTRUCT		FY 2017 -	\$30,000	(S(M))
PROJ.CATEGORY	INTERSECTION IMPROVEMENTS.	RIGHT-OF-WAY	FY 2017 -	\$280,000	(STBGDA)
EXEMPT	<u>ADD ENGINEERING AND RIGHT-OF-WAY IN FY 17 NOT</u>		FY 2017 -	\$70,000	(S(M))
	<u>PREVIOUSLY PROGRAMMED. DELAY CONSTRUCTION</u>	CONSTRUCTION	FY 2018 -	\$800,000	(STBGDA)
	<u>FROM FY 16 TO FY 18.</u>		FY 2018 -	\$200,000	(S(M))
				\$1,500,000	

## DIVISION 12

C-5529	MOORESVILLE, INTERSECTION OF NC 115 AND FAITH	CONSTRUCTION	FY 2018 -	\$996,000	(CMAQ)
IREDELL	ROAD-CAMPUS LANE IN MOORESVILLE. REALIGN		FY 2018 -	\$750,000	(STBGDA)
PROJ.CATEGORY	FAITH ROAD TO TIE INTO EXISTING NC 115/CAMPUS		FY 2018 -	\$1,148,000	(L)
EXEMPT	LANE INTERSECTION AND CONSTRUCT DEDICATED			\$2,894,000	
	TURN LANES ON FAITH ROAD AND CAMPUS LANE				
	APPROACHES TO THE INTERSECTION.				
	<u>TO ALLOW ADDITIONAL TIME FOR RIGHT-OF-WAY</u>				
	<u>ACQUISITION, DELAY CONSTRUCTION FROM FY 17</u>				
	<u>TO FY 18</u>				

\* INDICATES FEDERAL AMENDMENT

## REVISIONS TO THE 2016-2025 STIP

HIGHWAY PROGRAM  
STIP MODIFICATIONS

## DIVISION 12

EB-5803	CONOVER, 1ST AVENUE AREA BICYCLE AND	CONSTRUCTION	FY 2017 -	\$561,000	(STBGDA)
CATAWBA	PEDESTRIAN IMPROVEMENTS.		FY 2017 -	<u>\$141,000</u>	(L)
PROJ.CATEGORY	<u>TO ALLOW ADDITIONAL TIME FOR PLANNING AND</u>			\$702,000	
DIVISION	<u>DESIGN, DELAY CONSTRUCTION FROM FY 16 TO FY 17</u>				

EB-5808	HICKORY, UPGRADE CURRENT PEDESTRIAN SIGNALS	CONSTRUCTION	FY 2017 -	\$322,000	(STBGDA)
BURKE	AND INSTALL NEW PEDESTRIAN SIGNALS.		FY 2017 -	<u>\$80,000</u>	(L)
CALDWELL	<u>TO ALLOW ADDITIONAL TIME FOR PLANNING AND</u>			\$402,000	
CATAWBA	<u>DESIGN, DELAY CONSTRUCTION FROM FY 16 TO FY 17</u>				
PROJ.CATEGORY					
DIVISION					

U-4700A	US 321, NORTH OF US 70 IN HICKORY TO US 321A	RIGHT-OF-WAY	FY 2018 -	\$21,500,000	(NHP)
BURKE	<u>ADD STBGDA AND LOCAL MATCH FUNDING IN FY 18</u>		FY 2019 -	\$21,500,000	(NHP)
CALDWELL	<u>NOT PREVIOUSLY PROGRAMMED AT THE REQUEST</u>	UTILITIES	FY 2018 -	\$2,000,000	(NHP)
CATAWBA	<u>OF THE MPO. FUNDS ARE DESIGNATED FOR US 321</u>	CONSTRUCTION	FY 2018 -	\$9,614,000	(HP)
PROJ.CATEGORY	<u>BRIDGE ENHANCEMENTS.</u>		FY 2018 -	\$19,486,000	(NHP)
STATEWIDE			FY 2018 -	\$2,800,000	(STBGDA)
			FY 2018 -	\$700,000	(L)
			FY 2019 -	\$29,100,000	(NHP)
			FY 2020 -	\$29,100,000	(NHP)
			FY 2021 -	<u>\$29,100,000</u>	(NHP)
				\$164,900,000	

## DIVISION 13

EB-5807	MORGANTON, MORGANTON DOWNTOWN GREENWAY	CONSTRUCTION	FY 2017 -	\$1,335,000	(STBGDA)
BURKE	CONNECTOR.		FY 2017 -	\$334,000	(L)
PROJ.CATEGORY	<u>TO ALLOW ADDITIONAL TIME FOR PLANNING AND</u>			\$1,669,000	
DIVISION	<u>DESIGN, DELAY CONSTRUCTION FROM FY 16 TO FY 17</u>				

## DIVISION 14

R-5207C	SR 1006 (HOWARD GAP ROAD), SR 1539 (JACKSON	RIGHT-OF-WAY	FY 2017 -	\$100,000	(T)
HENDERSON	ROAD) TO US 25 IN FLETCHER	CONSTRUCTION	FY 2018 -	<u>\$850,000</u>	(T)
PROJ.CATEGORY	<u>TO ALLOW ADDITIONAL TIME FOR DESIGN, DELAY</u>			\$950,000	
TRANSITION	<u>RIGHT-OF-WAY FROM FY 16 TO FY 17 AND</u>				
	<u>CONSTRUCTION FROM FY 17 TO FY 18</u>				

\* INDICATES FEDERAL AMENDMENT

## REVISIONS TO THE 2016-2025 STIP

HIGHWAY PROGRAM  
STIP MODIFICATIONS

## DIVISION 14

W-5506	NC 191, SR 1381 (MOUNTAIN ROAD) TO NORTH OF SR	RIGHT-OF-WAY	FY 2017 -	\$1,028,000	(STBG)
HENDERSON	1365 (NORTH RUGBY ROAD). CONSTRUCT A THREE-	CONSTRUCTION	FY 2017 -	\$1,975,000	(HSIP)
PROJ.CATEGORY	LANE SECTION BETWEEN N/S RUGBY AND COUNTRY		FY 2017 -	<u>\$2,500,000</u>	(STBG)
REGIONAL	ROAD, EXTEND RIGHT TURN LANE INTO WEST			\$5,503,000	
	HENDERSON SCHOOL, REVISE AND INSTALL				
	GUARDRAIL AT VARIOUS LOCATIONS, CONSTRUCT				
	ENTRANCE TO RUGBY MIDDLE SCHOOL ON NEW				
	LOCATION, AND CONSTRUCT PAVED SHOULDERS.				
	<u>TO ALLOW ADDITIONAL TIME FOR UTILITY PLANS</u>				
	<u>DELAY RIGHT-OF-WAY FROM FY 16 TO FY 17</u>				

## STIP DELETIONS

## DIVISION 12

* EB-5805	HICKORY, CITYWALK - PHASE I. CONSTRUCT MULTI-	ENGINEERING	FY 2016 -	\$800,000	(STBGDA)
CATAWBA	PURPOSE PEDESTRIAN AND BICYCLE PATH.		FY 2016 -	<u>\$200,000</u>	(L)
PROJ.CATEGORY	<u>DELETE AT THE REQUEST OF MPO.</u>			\$1,000,000	
DIVISION					

ITEM N SUMMARY

ADDITIONS	8 PROJECTS	\$15,439,000
MODIFICATIONS	37 PROJECTS	
DELETIONS	1 PROJECTS	\$1,000,000
	46 PROJECTS	\$14,439,000

\* INDICATES FEDERAL AMENDMENT

Thursday, December 01, 2016

NCDOT December 1, 2016 Board of Transportation Agenda

SUMMARY: There are a total of 22 Agreements for approval by the Board of Transportation.

Statewide

North Carolina Department of  
Information Technology (NCDIT)

This Agreement is to provide support services for NCDOT's users and normal maintenance of the Department's SAP™ system. The Department and Agency have agreed provide to up to two thousand (2000) SAP™ User Licenses within the Agency. The Agency shall provide payment for one hundred percent (100%) of the cost of the work performed by the Department. The estimated amount is \$241,758.75.

Division 2

City of Greenville  
Pitt County  
2.1074SM

This Municipal Operations Agreement (Schedule C) provides for the municipal operation of State-owned traffic signals at certain intersections on the State Highway System within or near the City of Greenville. The Department shall pay the Municipality an annual approved amount for the traffic signals operation, maintenance, and administrative costs as per the Agreement.

Town of New Bern  
Craven County  
49025

This Project consists of intersection improvements at Taberna Way and US 70 in New Bern, including signal and pavement marking revisions as needed for lane modifications. The Department is responsible for all phases of the work and participate in the cost of the Project up to \$100,000. The Municipality shall reimburse the Department \$10,000 for the work. The estimated total cost of the project is \$110,000.

Division 3

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

This Rail Agreement covers the permanent closure of the municipal at-grade highway-railroad crossing of Dudley Street (Crossing No. 624 710K, milepost AC 188.48), and for the installation of crossing signal warning devices and gates. CSXT will perform all work within the railroad right-of-way. The Department will perform all work outside of the railroad right-of-way. CSXT will reimburse the Department \$4,000 toward the cost of the crossing closure, and will pay the Municipality \$9,000, as an incentive payment for closing the crossing. The Department will pay CSXT 10% of the actual cost of the crossing signal installation at Dudley Street as a matching incentive for the crossing closure. The estimated cost of the Project is \$500,000.

NCDOT December 1, 2016 Board of Transportation Agenda

Division 3, con't.

City of Jacksonville  
Onslow County  
U-5719  
50117.2.1

This Project consists of the Municipality relocating NCDOT fiber lines along US 258/NC 24 at the intersection with SR 1213 (Blue Creek Rd) and SR 1396 (Ridge Road) in Jacksonville. The Municipality shall be responsible for all phases of the Project. The Department shall participate in actual costs in an amount not to exceed \$3,600. Costs which exceed this amount shall be borne by the Municipality.

Division 5

North Carolina State University  
Clean Energy Technology  
Center (CETC)  
C-5702 A, B, & C  
44907.1.1  
44907.1.2  
44907.1.3

This Project consists of the development and operation of a clean fuel advanced technology outreach and awareness program, including sub-awards for Projects in eligible counties in North Carolina. The Project will be administered by the CETC, a Public Service Center of the University and will be responsible for day to day management and implementation of the Project. The Department will pay eighty percent (80%) of eligible costs from the CMAQ fund allocation up to a maximum of \$4,494,500. The CETC will be responsible for the twenty percent (20%) non-federal match of \$1,123,624.

City of Durham  
Durham County  
C-5183B  
46242.2.1  
46242.3.2

This Project consists of the installation of sidewalks along Alston Avenue from Capps Street to Riddle Road in Durham. The Municipality is responsible for all phases of the Project. The Department shall pay 80% of approved eligible costs from the CMAQ funds allocation, not to exceed \$644,360. The Municipality will be responsible for providing the 20% (\$161,090) non-federal match for the CMAQ funds authorized and all costs that exceed the total estimated cost.

Town of Wake Forest  
Wake County  
17BP.5.R.47

This Design Build Project consists of replacement of Bridge No. 132 across Smith Creek on SR 2052 in Wake Forest. The Project includes construction of a 10-foot concrete greenway, 6-foot sidewalks, and a 5-lane section at the Rogers Road-Forestville Road/Heritage Lake Road intersection. This Supplemental Agreement is to include driveway access from Rogers Road to the Town's property, Parcel 132-3. The Municipality will pay an additional cost of \$8,158 to fund the additional work.

NCDOT December 1, 2016 Board of Transportation Agenda

Divisions 5 and 7

Triangle J COG  
Wake, Durham and Orange  
Counties  
C-4924  
44024.1.1  
44024.1.2

This Project is for the implementation of a Transportation Demand Management Program for the Triangle Area. The Triangle J COG is responsible for implementing the Project. This Supplemental Agreement increases the funding for the work by \$1,028,000 with CMAQ funds. The Department will participate in no more than 80% of eligible costs up to a total of \$4,185,000 and the COG will provide a match of \$4,721,000.

Division 6

City of Fayetteville  
Cumberland County  
U-5528 F  
50078.2.2  
50078.3.8

This Project consists of the construction of sidewalk on the western side of Skibo Road from Raeford Road northward to Richwood Court. The Municipality is responsible for Right of Way and Utility Relocation for the Project. The Department shall pay 80% of approved eligible costs from the Transportation Alternatives Program (TAP) funds allocation, not to exceed \$96,000. The Municipality will be responsible for providing the 20% (\$24,000) non-federal match for the TAP funds authorized and all costs that exceed the total estimated cost.

City of Fayetteville  
Cumberland County  
U-5528 FA  
50078.2.3  
50078.3.3

This Project consists of the construction of sidewalk along the eastern side of Rosehill Road from Country Club Drive northward to Shaw Mill Road. The Department shall pay the Municipality 80% of approved eligible costs from the STP-DA funds allocation, not to exceed \$436,500. The Municipality will be responsible for providing the 20% (\$109,125) non-federal match for the STP-DA funds and all costs that exceed the total estimated cost.

City of Fayetteville Public Works  
Commission  
Cumberland County  
U-2519CA  
34817.2.7

This Project consists of highway improvements for the Fayetteville Outer Loop from south of US 401 to south of SR 1400 (Cliffdale Road) in Fayetteville. 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 \$595,366.

NCDOT December 1, 2016 Board of Transportation Agenda

Division 7

City of Greensboro  
Guildford County  
SS-4907BM  
44712.3.1

This Project consists of modifications to the traffic signal at the intersection of US 220 (Battleground Avenue) and Mill Street/Battleground Court in Greensboro. Modifications include phase upgrades for left turn movements on both northbound and southbound Battleground Avenue. The Municipality is responsible for all phases of the Project. The Department shall participate in the costs in an amount not to exceed \$4,050. Costs which exceed this amount shall be borne by the Municipality.

City of Greensboro  
Guildford County  
SS-4907BO  
44714.3.1

This Project consists of a traffic signal installation at the intersection of SR 2085 (Joseph M. Bryan Blvd.) eastbound on/off ramp at SR 2136 (Fleming Road). The signal will include mast arm poles and protected-permitted flashing yellow arrows. The Municipality is responsible for all phases of the Project. The Department will pay the costs in an amount not to exceed \$60,300. Costs which exceed this amount shall be borne by the Municipality.

Division 10

City of Charlotte  
Mecklenburg County  
EB-5820  
44840.1.1  
44840.3.1

This Project consists of the purchase and installation of bike-sharing stations around the City of Charlotte. The Municipality shall be responsible for all phases of the Project. The Department shall contribute 80% (\$675,000) of approved eligible costs from the TAPDA funds allocation. The Municipality shall provide the 20% (\$168,750) non-federal match and all costs that exceed the total estimated cost of \$843,750.

Mecklenburg County  
EB-5786  
46432.3.1

This Project consists of the construction of the Little Sugar Creek Greenway Extension from Ramblewood Lane in Charlotte to Cadillac Street in Pineville. The County shall be responsible for all phases of the Project. The Department shall contribute 80% (\$2,200,000) of approved eligible costs from the STBGDA funds allocation. The County shall provide the 20% (\$550,000) non-federal match and all costs that exceed the total estimated cost of \$2,750,000.

City of Concord  
Cabarrus County  
10.2013SM

This Municipal Operations Agreement (Schedule C) provides for the operation of the traffic signals at certain intersections on the State Highway System within or near the City of Concord. The Department shall pay the Municipality an annual approved amount for the traffic control devices utilized for the operation and maintenance of the system.

NCDOT December 1, 2016 Board of Transportation Agenda

Division 10, con't.

Charlotte Water  
Mecklenburg County  
43957

This Project consists of roadway improvements and signalization at the intersection of NC 49 and Cameron Boulevard and a left turn lane crossover at the intersection of W.T. Harris Boulevard and Alumni Way. At the request of the Agency, the Department shall include provisions in the construction contract for the contractor to adjust and/or relocate the water lines. The Agency shall reimburse the Department the entire cost of said utility work. The estimated reimbursement from the Agency is \$22,882.

City of Concord  
Cabarrus County  
10.2013SM

This Municipal Operations Agreement (Schedule C) provides for the operation of the traffic signals at certain intersections on the State Highway System within or near the City of Concord. The Department shall pay the Municipality an annual approved amount for the traffic control devices utilized for the operation and maintenance of the system.

City of Concord  
Cabarrus County  
10.2013SM

This Municipal Operations Agreement (Schedule D) provides for the operation of the computerized traffic signal system as indicated in the Agreement. The Municipality shall be responsible for timing plans, electric traffic signals and other traffic control devices on the State Highway System Streets located within the City of Concord. The Department shall pay an annual approved amount for the traffic signal control system installation, maintenance, and administrative costs as per the Agreement.

Norfolk Southern Railway (NS)  
Mecklenburg County  
P-5705A  
44475.1.1

This Rail Agreement supersedes the NS agenda item for the development and review of preliminary track and signal plans for the proposed wye connection track between the NS Main and R lines at Charlotte Junction that was approved at the February 4, 2016 Board of Transportation meeting. Due to a change in the scope of work and Project responsibilities, the Agreement has been modified to reflect (1) an increase in the cost of the Department's participation from \$300,000 to up to \$1,000,000, and (2) a change in Project responsibilities as follows: The Department will prepare plans and submit said plans to NS for review. NS will prepare signal and other design plans, which will be submitted to the Department for review and approval. The Department will pay NS up to \$1,000,000 for the actual cost of all work performed by NS and associated with plan review and preparation/development.

NCDOT December 1, 2016 Board of Transportation Agenda

Division 11

Town of Beech Mountain  
Avery County  
44480

This Project consists of constructing a sidepath along NC 184 (Beech Mountain Parkway) from 0.2 miles north of the south town limit to 0.4 miles north of the south town limit. The Municipality is responsible for all phases of the Project. This Supplemental Agreement is to include eligible design costs associated with the Project in the current Project funding of \$250,000.

Division 12

City of Gastonia  
Gaston County  
I-5000  
41153.3.1

This Project consists of geometric safety improvements to the Interchange on I-85/US 321 in Gastonia. 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 \$478,907.

NCDOT December 1, 2016 Board of Transportation Agenda

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

Division 1

Outer Banks Sporting Events  
Dare County  
36249.3703

This Project consists of providing traffic control for the Outer Banks Marathon in Dare County, including but not limited to cones, signs, barricades, changeable message signs, and the associated labor to install and maintain them. The Developer shall reimburse the Department 100% of the cost. The estimated reimbursement is \$17,000.

Division 3

Town of Leland  
Brunswick County  
U-5534J  
44096.1.F11  
44096.2.F11  
44096.3.F11

This Project consists of the construction of a 5-foot wide sidewalk in three locations in Leland: on Village Road, Town Hall Drive and Old Fayetteville Road. This Supplemental Agreement is to extend the completion date for the Project to July 1, 2019, in lieu of June 30, 2017.

Town of Leland  
Brunswick County  
U-5534I  
44096.1.F10  
44096.2.F10  
44096.3.F10

This Project consists of the construction of a 10-foot wide asphalt multi-use path to the Sturgeon Creek Bridge in Leland. This Supplemental Agreement is to extend the completion date for the Project to July 1, 2019, in lieu of June 30, 2017.

Division 4

City of Rocky Mount  
Nash County  
36249.3709

This Project consists of review and inspection of a traffic signal upgrade or installation at the intersection at NC 43/48 (Falls Road and Peachtree Street) in Rocky Mount. The Municipality shall reimburse the Department 100% of the cost of the Department's review and inspection. The estimated reimbursement is \$22,500.

Division 5

Town of Rolesville  
Wake County  
44823

This Project consists of installation of a 0.35 mile segment of sidewalk from just north of Louisburg Road to Quarry Road in Rolesville. The Municipality is responsible for all phases of the Project. The Department shall participate in the actual Project costs up to a maximum amount of \$250,000. Costs which exceed this amount shall be borne by the Municipality.

NCDOT December 1, 2016 Board of Transportation Agenda

Division 5, con't.

Knightdale Development  
Ownership LLC  
Wake County  
36249.3704

This Project consists of review and inspection of a traffic signal installation on US 64 Business at the Parkstone Street/Quarry Driveway in Knightdale. The Developer shall reimburse the Department 100% of the cost of the Department's review and inspection. The estimated reimbursement is \$5,000.

D&N Developers LLC  
Wake County  
36249.3705

This Project consists of the review and inspection of the installation of a traffic signal at the intersection of Sunset Lake Road and Lassiter Road. The Developer shall reimburse the Department 100% of the cost of the Department's review and inspection. The estimated reimbursement is \$5,000.

GEMCAP Holdings LLC  
Durham County  
36249.3706

This Project consists of the review and inspection of the installation of a traffic signal at the intersection of SR 1110 (Southwest Durham Drive) and Witherspoon Drive. The Developer shall reimburse the Department 100% of the cost of the Department's review and inspection. The estimated reimbursement is \$5,000.

City of Raleigh  
Wake County  
15005.1092010

This Project consists of a water line for emergency washout repairs on SR 2052 (Rogers Road) in Raleigh. The Municipality shall be responsible for 100% of the cost for the water line. The estimated reimbursement from the Municipality is \$32,900.

Town of Morrisville  
Wake County  
50138.3.157

The Project consists of installation of mast arm signal poles at the intersection of SR 3015 (Airport Blvd) and SR 1641 (Slater Road) in Morrisville. The Municipality shall reimburse the Department 100% of the actual cost of all work performed by the Department, including administrative costs. The estimated reimbursement is \$85,750.

Division 8

Town of Aberdeen  
Moore County  
R-4073  
44255

This Project consists of groundwater remediation near Highway 211 of Lockly Drive in Aberdeen. This Supplemental Agreement is to extend the completion date of the Project to 1/17/2018 in lieu of 1/17/2017.

North Carolina State Employees  
Credit Union  
Lee County  
36249.3708

This Project consists of the review and inspection of the modification of a traffic signal at the intersection of Bragg Street and Nash Street in Sanford. The Developer shall reimburse the Department 100% of the cost of the Department's review and inspection. The estimated reimbursement is \$3,000.

NCDOT December 1, 2016 Board of Transportation Agenda

Division 9

Village of Clemmons  
Forsyth County  
36249.3702

This Agreement is to establish the ownership and maintenance responsibilities for mast arm poles at the intersection of SR 1891 (Peace Haven Road) and Village Club Lane in Clemmons. The Municipality shall own and be responsible for all maintenance associated with the mast arm poles. The Department will be responsible for maintaining the attached signal hardware, signal heads, brackets, signal wire, and associated hardware.

Winston-Salem Forsyth County  
Board of Education  
Forsyth County  
36249.3737

This Project consists of extending driveway pipe, adjusting the ditch line, and paving the driveway inside the gate of the school bus lot in Forsyth County. The Board of Education will reimburse the Department 100% of the cost of the work. The estimated reimbursement is \$10,600.

Division 10

City of Concord  
Cabarrus County  
C-5557  
45845.3.1

This Project consists of the installation of sidewalk at several locations in the City of Concord. This Supplemental Agreement is to extend the completion date of the Project to 12/31/2018 in lieu of 12/31/2015.

M/I Homes of Charlotte, LLC  
Mecklenburg County  
36249.3701

This Project consists of modifications to the existing traffic signal at the intersection of Christenbury Parkway (SR 2894) and Cox Mill Road (SR 1448) in Concord. The Developer shall reimburse the Department 100% of the cost of the Department's review and inspection. The estimated reimbursement is \$5,000.

CalAtlantic Homes  
Mecklenburg County  
36249.3562

This Project consists of a signal upgrade at the intersection of NC 73 and Bradford Park Entrance/New Development Road. This Supplemental Agreement is for an additional traffic signal modification at the intersection of Davidson-Concord Road, (SR 2693) and Sam Furr Road as required by the construction of a right turn lane on westbound NC 73. The Developer shall reimburse the Department an additional \$5,000 for the review and inspection of the additional traffic signal. The total estimated reimbursement from the Developer is \$10,000.

NCDOT December 1, 2016 Board of Transportation Agenda

Division 12

City of Statesville  
Iredell County  
K-4908  
39894.1.1  
39894.2.1  
39894.3.1

This Project consists of improvements to the Municipality's sewer system to serve the proposed I-77 Iredell County Median Rest Area. This Supplemental Agreement is to clarify the construction and reimbursement provisions and extend the completion date of the Project to November 30, 2017 in lieu of April 1, 2016.

Iredell Water Corporation  
Iredell County  
K-4908  
39894.1.1  
39894.2.1  
39894.3.1

This Project consists of improvements to the Corporation's water system to serve the proposed I-77 Iredell County Median Rest Area. This Supplemental Agreement is to clarify the construction and reimbursement provisions and to extend the completion date of the Project to November 30, 2017, in lieu of April 10, 2016.

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). The County shall be responsible for all phases of the Project. The Department shall participate in the actual construction costs in an amount not to exceed \$350,000. Costs which exceed this amount shall be borne by the County.

Division 13

North Carolina Department of  
Agriculture  
Asheville  
Buncombe County

This Inter-Agency Agreement is for the Department to grant permission to the NC Department of Agriculture to utilize the right of way adjacent to the WNC Agriculture Centers public parking at the south east end of the facility in Asheville to be utilized as a parking lot on a temporary basis.

Division 14

Haywood County  
E-4975  
39831.1.1  
39831.3.1

This Project is for the installation of interpretive signage and visitor kiosks in western North Carolina in the Blue Ridge National Heritage Area (BRNHA). This Supplemental Agreement provides additional time to submit final reimbursement requests for the Project. The County, working with the BRNHA, will complete the Project by January 31, 2017, in lieu of September 30, 2016.

**NCDOT December 2016 Board of Transportation Agenda**

**Approval of Municipal Street System Changes**

**Additions to the State Highway System**

<b>Division</b>	<b>County</b>	<b>Municipality</b>	<b>Road</b>	<b>Termini</b>	<b>Length</b>
10	Union 2016_12_M001	Town of Weddington	Bonner Drive	To add Bonner Drive located in the Arbor Oaks Subdivision.	0.14

**Total Miles= 0.14 Miles**

## NCDOT December 2016 Board of Transportation Agenda

<u>No.</u>		<u>Enacted Page No.</u>
1	Preliminary Right of Way Plans	R - 1 and R - 2
2	Final Right of Way Plans	R - 3
3	Revision to Final Right of Way Plans	R - 4
4	Approval of Conveyance of Highway Right of Way Residues	R - 5
5	Approval of Conveyance of Surplus Highway Right of Way	R - 6
6	Approval of Advance Acquisitions for Highway Right of Way	R - 7

**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 Unit 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 Unit to acquire right of way on the below projects either by negotiation or by condemnation through the Attorney General's Office.

**(Division 2)**

**Pitt County; I.D. No. W-5601CY; Project No. 50138.2.104:**  
US 264 alternate (Greenville Boulevard) at SR 1135 (Williams Road) / Koinonia Church Western Driveway in Greenville

**(Division 3)**

**Pender County; I.D. No. B-5304; Project No. 46018.2.1:**  
Bridge No. 203 over Sill's Creek on SR 1324

**(Division 4)**

**Johnston County; I.D. No. W-5601DP; Project No. 50138.2.121:**  
SR 1003 (Buffalo Road) between SR 1702 (Archer Lodge Road) and the Wake County Line (Portion of section is within Archer Lodge Town Limits, remainder in Johnston County)

**Wayne County; I.D. No. W-5601BS; Project No. 50138.2.72:**  
US 13 at SR 1127 (Herring Road)

**Johnston County; I.D. No. W-5601BZ; Project No. 50138.2.79:**  
SR 1720 (Thanksgiving Fire Road) between approximately 0.1 mile South and approximate 0.1 mile North of SR 1943 (New Creech Road)

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

**(Division 5)**

**Wake County; I.D. No. U-5537; Project No. 44112.2.1:**

Apex – SR 1521 (Lake Pine Drive) widen to 3 lanes and North of MacGregor Pines Road to North of Versailles Drive, Include 10 foot multi-use path East side; 5 foot sidewalk West side

**Wake County; I.D. No. U-5317; Project No. 45430.2.1:**

Fuquay-Varina – North Judd Parkway Northwest from NC 55 to NC 42

**Wake County; I.D. No. W-5601EJ; Project No. 50138.2.140:**

US 1A (South Main Street) between Star Road and Wake Pointe Shopping Center. Safety Improvements

**Wake County; I.D. No. U-5529; Project No. 44107.2.1:**

SR 1115 (Avent Ferry Road) from SR 1101 (Piney Grove-Wilbon Road) to West Elm Avenue in Holly Springs

**(Division 7)**

**Alamance County; I.D. No. B-5347; Project No. 46061.2.1:**

Bridge No. 170 over prong of Alamance Creek on SR 1212

**(Division 11)**

**Wilkes County; I.D. No. B-4978; Project No. 39897.2.1:**

Bridge No. 82 over South Prong Lewis Fork Creek on SR 1154

**(Division 14)**

**Haywood County; I.D. No. W-5601GP; Project No. 50138.2.199:**

SR 1613 (Beaver Dam Road) between SR 1663 (Great Oak Drive) and SR 1640 (Hilla Villa Road) near Canton

**Henderson County; I.D. No. U-5105; Project No. 41903.2.FR1:**

Hendersonville – us 25/SR 1164 (Erkwood Drive) / SR 1779 (Shepherd Street)

**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. 38584.2.1; Sampson County; I.D. No. B-4814:**

Grading, drainage, paving and structures on Bridges No. 102, 103 & 104 over Little Coharie Creek on SR 1233 (Autryville Road) 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. 08 over Brown Creek on SR 1627 with the right of way indicated upon the final plans for said project.

**(Division 14)**

**Project No. 39999.2.FR2; Jackson County; I.D. No. R-4753:**

Grading, drainage, paving, retaining walls and culverts on NC 107 from North of SR 1002 to NC 281 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 10)**

**Project No. 34811.2.3; I.D. No. U-2507A; Mecklenburg County:**

Final Right of Way plans approved on the minutes of the January 9, 2014 Board of Transportation Meeting. Revised additional right of way, easements or control of access shown on plan sheet(s) 10, 23 and 24 as presented at the December 1, 2016 Board of Transportation Meeting.

**(Division 11)**

**Project No. 34518.2.FR2; I.D. No. R-2915B; Ashe County:**

Final Right of Way plans approved on the minutes of the September 3, 2015 Board of Transportation Meeting. Revised additional right of way, easements or control of access shown on plan sheet(s) 8 as presented at the December 1, 2016 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 34542.2.5, Parcel R-3421C 017, I-73/74 from Southwest of SR 1304 (Harrington Road) to I-73/74 Interchange South of Ellerbe Lee County**

Conveyance of an approximate 0.155-acre residue area to David Tarlton and Tammie Tarlton, the only interested adjacent owners, for the appraised value of \$155.00.

**(Division 9)**

**Project 34871.2.2, Parcel U-2826A 006, Bridge 256 & 257 on US 52 Norfolk Southern Railroads Forsyth County**

Conveyance of an approximate 0.152-acre residue area to Richard D. Kelly, the only interested adjacent owner, for the appraised value of \$1,850.00.

**(Division 11)**

**Project 35015.2.1, Parcel U-4020 030 and 031, US 421 (King Street) from US 321 (Hardin Street) to East of NC 194 (Jefferson Road) Watauga County**

Conveyance of an approximate 0.240-acre residue area to Noche, LLC, the highest bidder after public advertisement, for the high bid amount of \$16,380.00.

**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 6.498014T, Parcel U-2524AC 067, Intersection of I-73 and SR 1541  
(Wendover Avenue)  
Guilford County**

Conveyance of an approximate 0.618-acre surplus right of way area to Keystone Group, Inc. for the enhancement value of \$33,100.00.

**Advance Acquisition of Highway Right of Way**

Upon recommendation of the Manager of the Right of Way Unit, 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 Unit to acquire said properties either by negotiation or by condemnation through the Office of the Attorney General.

**Division 9**

**Property of Gary Edward Winslow  
I.D. No. U-2579AB, Parcel #904,  
WBS 34839.2.4, F. A. Project N/A,  
County of Forsyth**

**Property of Lillian M. Cifuentes  
I.D. No. U-2579AB, Parcel #905,  
WBS 34839.2.4 F. A. Project N/A,  
County of Forsyth**

**Division 10**

**Property of Squires Realty, Inc.  
I.D. No. U-2509A, Parcel #900,  
WBS 38965.2.2, F. A. Project N/A,  
County of Mecklenburg**

**Division 11**

**Property of Drucilla Bouffard  
I.D. No. R-2233BB, Parcel #900,  
WBS 34400.2.5, F. A. Project N/A,  
County of Rutherford**

**ADVANCE ACQUISITION OF HIGHWAY RIGH TOF WAY    4 PROJECT(S)            \$0.00**

**R-ITEM SUMMARY                            26 PROJECT(S)                            TOTAL: \$51,485.00**

**NORTH CAROLINA BOARD OF TRANSPORTATION  
RECOMMENDED ALLOCATION OF HIGHWAY MAINTENANCE APPROPRIATIONS  
FISCAL YEAR 2016 - 2017**

There will be no Maintenance Allocation submitted to the Board for approval at the December 2016 Board meeting.

November 10, 2016

MEMORANDUM TO: Board of Transportation  
FROM: Transportation Planning Branch  
SUBJECT: Submission of the Rocky Mount MPO Comprehensive Transportation Plan for Mutual Adoption by the Board of Transportation

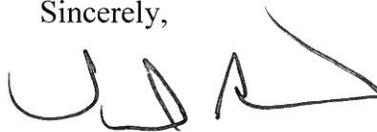
The Transportation Planning Branch has worked cooperatively with the Rocky Mount MPO on the development of a Comprehensive Transportation Plan (CTP). The plan was adopted by the Rocky Mount MPO on September 19, 2016.

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

[https://connect.ncdot.gov/projects/planning/Pages/CTP-Details.aspx?study\\_id=Rocky Mount](https://connect.ncdot.gov/projects/planning/Pages/CTP-Details.aspx?study_id=Rocky Mount)

The Transportation Planning Branch recommends the mutual adoption of the Rocky Mount MPO Comprehensive Transportation Plan as shown on the attached map, with a recommendation date of October 11, 2016.

Sincerely,

A handwritten signature in black ink, appearing to read 'J Alavi', with a long horizontal stroke extending to the right.

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

Attachment

December 1, 2016

**Adopted by:**

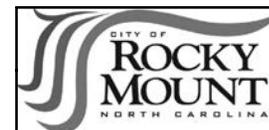
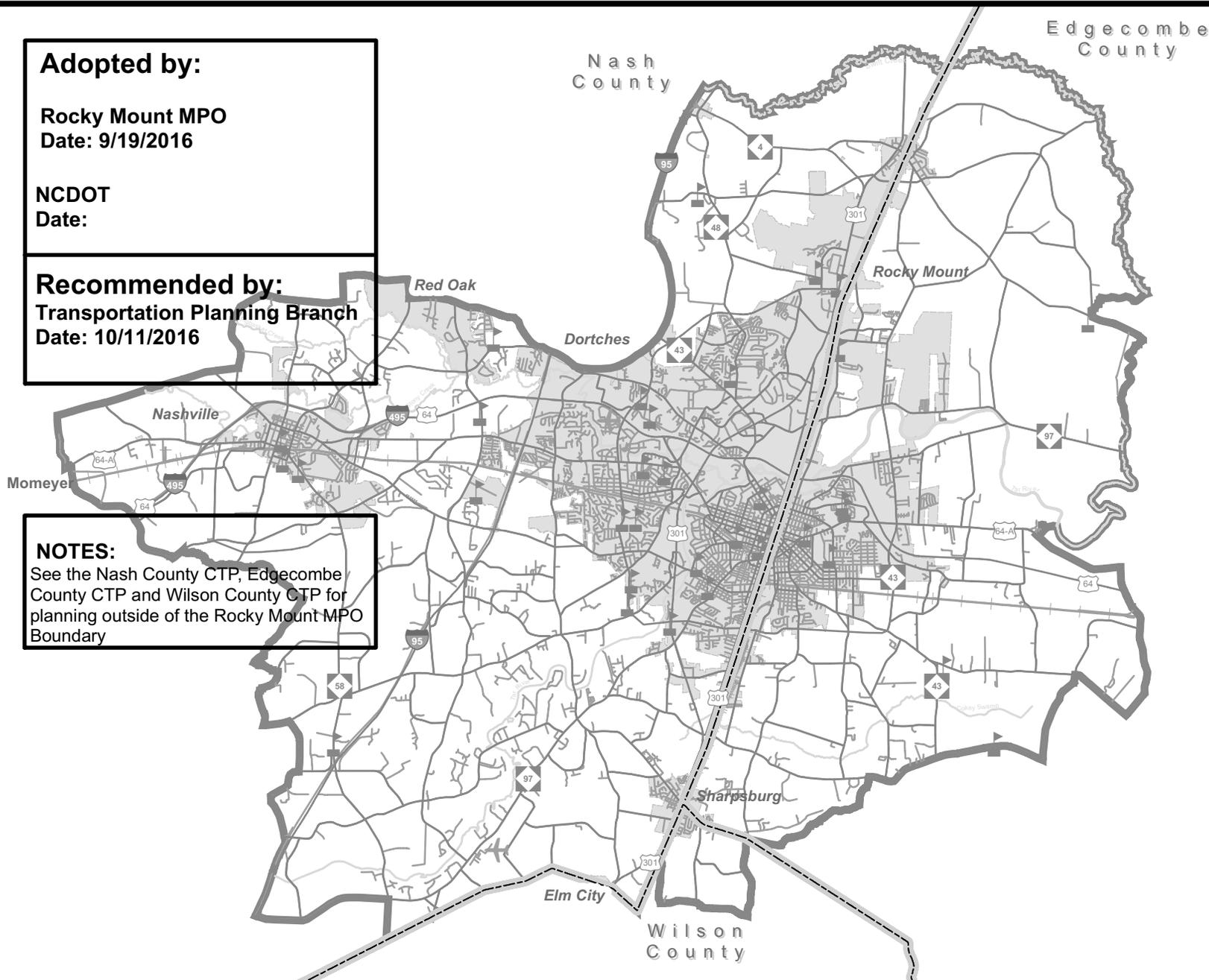
Rocky Mount MPO  
Date: 9/19/2016

NCDOT  
Date:

**Recommended by:**  
Transportation Planning Branch  
Date: 10/11/2016

**NOTES:**

See the Nash County CTP, Edgecombe County CTP and Wilson County CTP for planning outside of the Rocky Mount MPO Boundary



**Rocky Mount MPO**

Nash / Edgecombe / Wilson Counties  
North Carolina

**Comprehensive  
Transportation Plan**

Plan date: 9/16/2016

*RECOMMENDED*

- Sheet 1 **Adoption Sheet**
- Sheet 2 **Highway Map**
- Sheet 3 **Public Transportation and Rail Map**
- Sheet 4 **Bicycle Map**
- Sheet 5 **Pedestrian Map**

**Legend**

- Airports
- Schools
- Roads
- Railroads
- Rivers and Streams
- MPO Boundary
- County Boundaries
- Municipal Boundaries



**Figure 1**

Sheet 1 of 5



Base map date: August 2014

Refer to CTP document for more details

November 10, 2016

MEMORANDUM TO: Board of Transportation

FROM: Transportation Planning Branch

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

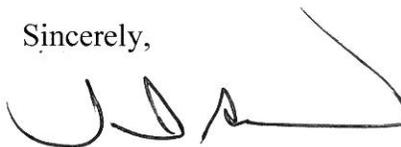
The Transportation Planning Branch has worked cooperatively with Scotland County, and the incorporated municipalities within the county, on the development of a Comprehensive Transportation Plan (CTP). The plan was adopted by Scotland County on October 3, 2016, the City of Laurinburg on October 18, 2016, the Town of East Laurinburg on November 1, 2016, the Town of Gibson on October 13, 2016, the Town of Wagram on October 6, 2016, and the Town of Maxton on September 20, 2016. The Lumber River RPO endorsed the plan on November 28, 2016.

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

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

The Transportation Planning Branch recommends the mutual adoption of the Scotland County Comprehensive Transportation Plan as shown on the attached map, with a recommendation date of November 29, 2016.

Sincerely,



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

Attachment

December 1, 2016

**Adopted by:**

Scotland County  
Date: October 03, 2016

City of Laurinburg  
Date: October 18, 2016

Town of East Laurinburg  
Date: November 01, 2016

Town of Gibson  
Date: October 13, 2016

Town of Wagram  
Date: October 06, 2016

Town of Maxton  
Date: September 20, 2016

NCDOT  
Date:

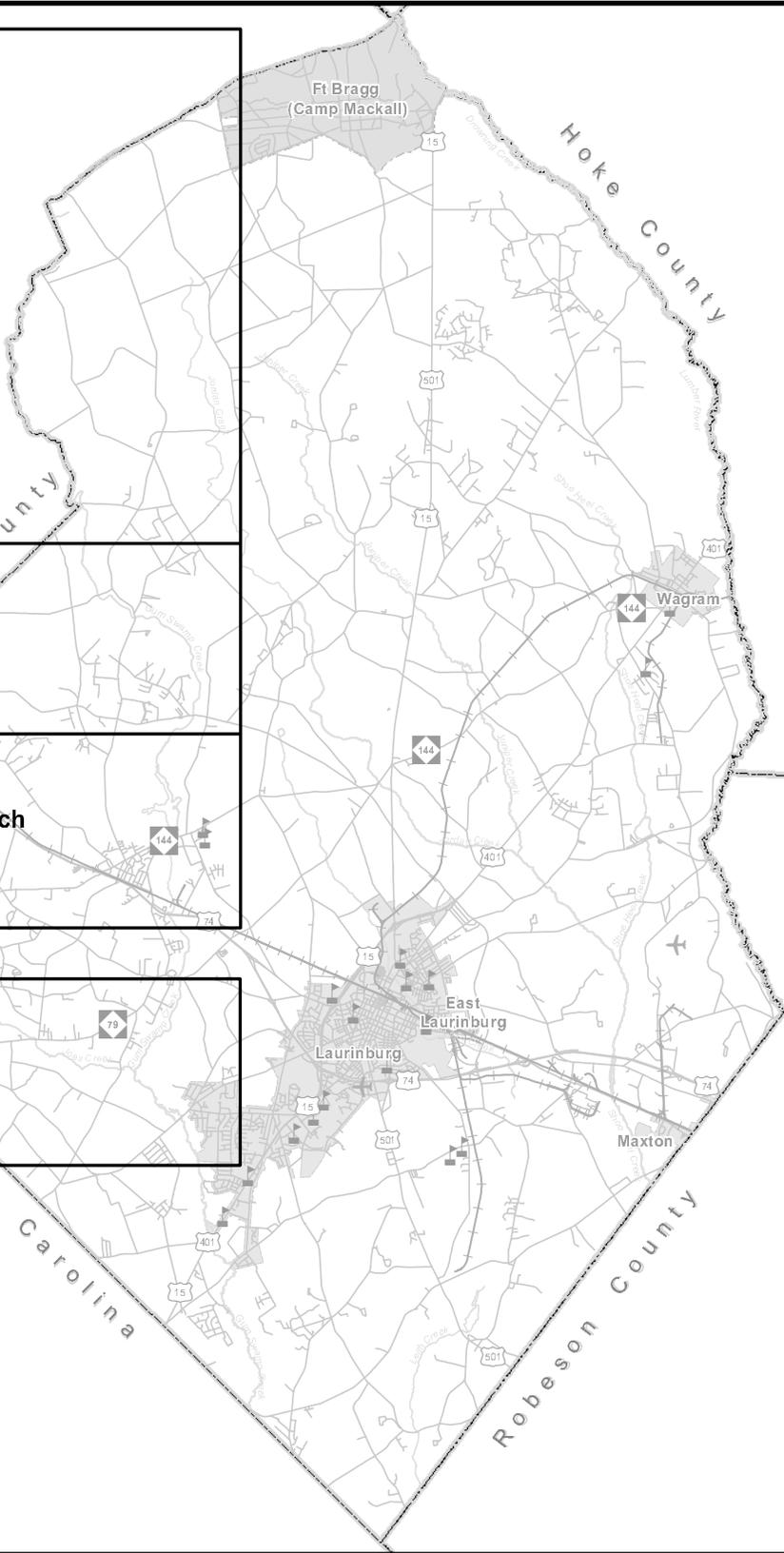
**Endorsed by:**

Lumber River RPO  
Date: November 28, 2016

**Recommended by:**

Transportation Planning Branch  
Date: November 29, 2016

**NOTES:**



Sheet 1 Adoption Sheet

Sheet 2 Highway Map

Sheet 3 Public Transportation and Rail Map

Sheet 4 Bicycle Map

Sheet 5 Pedestrian Map

**Legend**

- Schools
- Airports
- Roads
- Railroads
- Rivers and Streams
- Municipal Boundary
- Military Base
- County Boundary



Sheet 1 of 5

Base map date: January 3, 2014

Refer to CTP document for more details



**Scotland County**  
North Carolina

**RECOMMENDED**  
**Comprehensive**  
**Transportation Plan**

Plan date: August 31, 2016

**NCDOT December 2016 Board of Transportation Agenda  
Approval of Mobility Funds for Construction Projects**

<b>Town/ County Division PROJ. CATEGORY</b>	<b>Project Description</b>	<b>Estimated Cost</b>
Northampton/ Hertford/ Bertie Cos. Div. 1 P-5600 DIVISION	WBS 44089.3.1 North Carolina Virginia railroad. \$3,400,000.00 has previously been approved for construction. Funds need to be decreased (\$2,800,000.00) and moved to Segment A. <b>This is a Strategic Transportation Investments Transition project.</b>	-\$2,800,000.00
Northampton/ Hertford/ Bertie Cos. Div. 1 P-5600A DIVISION	WBS 44089.3.2 North Carolina Virginia railroad. Initial funds are requested for construction to update the existing railroad track. <b>This is a Strategic Transportation Investments Transition project.</b>	\$2,800,000.00
<b>ITEM V SUMMARY</b>	<b>2 PROJECTS</b>	<b>\$0.00</b>

## RESOLUTION FOR BLUE STAR MEMORIAL HIGHWAY

**WHEREAS**, the Blue Star Memorial Highways is an expansive system of over 1,300 miles of highway that pay tribute to those who serve in the Armed Forces of the United States of America; and

**WHEREAS**, the Blue Star Memorial Highways honor all men and women who have defended, are currently defending, or who will defend the United States; and

**WHEREAS**, the Blue Star Memorial Highway designation along U.S. 64 continues from the Tennessee state line to Williamston in Martin County; and

**WHEREAS**, the extension of the Blue Star Memorial Highway Network along U.S. 64 from Williamston through Martin, Washington, Tyrrell and Dare counties fills a gap in the Blue Star network.

**NOW, THEREFORE, BE IT RESOLVED:**

That the North Carolina Board of Transportation designates U.S. 64 from Williamston to U.S. 158 in Nags Head a *Blue Star Memorial Highway*.

That appropriate signs be erected at a suitable time.

Adopted, this first day of December 2016 by the North Carolina Board of Transportation.

  
Chairman

  
Secretary of Transportation

## RESOLUTION FOR CORPORAL JESSE LUNSFORD

**WHEREAS**, Corporal Jesse Lunsford was born in 1895 in Person County and raised on a tobacco farm. He joined the United States Army in 1917 at the time when the United States of America had declared war on Germany and remained enlisted for the duration of the war; and

**WHEREAS**, Corporal Jesse Lunsford, assigned to Company G, 120<sup>th</sup> Infantry Regiment, 30<sup>th</sup> Division, A.E.F., near Bellicourt, France, September 29, 1918 was fighting to defend the United States of America with extraordinary heroism in action; and

**WHEREAS**, Corporal Jesse Lunsford attacked, single handed, a machine-gun post from which a destructive fire was being directed against his company. While he was approaching the nest the machine-gun shot the butt off his rifle, but he succeeded in getting close enough to the nest to throw four hand grenades into the nest and then killed the gunner with his bayonet; and

**WHEREAS**, Corporal Jesse Lunsford was awarded by the President of the United States, authorized by Act of Congress, the Distinguished Service Cross, the second highest award for heroism presented to a combat Army veteran; and

**WHEREAS**, the Person County Board of Commissioners requests to name a section of U.S. 158 East in memory of Corporal Jesse Lunsford for his acts of heroism and personal sacrifices.

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

That the North Carolina Board of Transportation names a portion of U.S. 158 East beginning at 3883 Oxford Road (Ivey Day Road) and ending at 9373 Oxford Road (Thomas Store Road) in Person County as the *Corporal Jesse Lunsford Highway*.

That appropriate signs will be erected at a suitable time.

Adopted, this the first day of December 2016 by the North Carolina Board of Transportation.

  
Chairman

  
Secretary of Transportation

## RESOLUTION FOR CONGRESSMAN J. HOWARD COBLE

**WHEREAS**, the Honorable John Howard Coble, a lifelong resident of Guilford County, was raised by his father, Joseph Howard Coble, who started his career as a janitor and rose to become manager of a local department store, and his mother, Johnnie E. (Holt) Coble, who worked in a textile factory; and

**WHEREAS**, Mr. Coble attended Appalachian State University, Guilford College and the UNC Chapel Hill School of Law, served in the U.S. Coast Guard for five years and remained as a reserve officer for an additional twenty-two years, where he achieved the rank of Captain; and

**WHEREAS**, Mr. Coble was an assistant federal prosecutor, state revenue secretary and state legislator before his initial 1984 congressional victory, where he went on to proudly serve for thirty years representing the Sixth Congressional District; and

**WHEREAS**, Congressman Coble became one of the most well-known and beloved representatives of the citizens of North Carolina; often seen wearing a fedora and a madras-patched sports jacket, he was proud of his accessibility to voters; and

**WHEREAS**, the childhood home of Congressman Coble, located off of Alamance Church Road, was intersected by Interstate 85 in the spirit of progress and improvement of local infrastructure for Guilford County citizens; and

**WHEREAS**, the Guilford County Board of Commissioners requests to name a portion of Interstate 85 in Guilford County in memory of Congressman J. Howard Coble for his lifelong commitment to public service and his innumerable personal sacrifices.

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

That the North Carolina Board of Transportation names a portion of Interstate 85, from Interstate 40 to Alamance Church Road in Guilford County as the *Congressman J. Howard Coble Highway*

That appropriate signs will be erected at a suitable time.

Adopted, this the first day of December 2016 by the North Carolina Board of Transportation.

  
Chairman

  
Secretary of Transportation

## **RESOLUTION FOR JIM COVINGTON, SR.**

**WHEREAS**, Jim Covington, Sr. has owned and operated Jim's Hot Dogs and Hamburgers in Graham which has provided employment for and fed those in the community for over 50 years; and

**WHEREAS**, Jim Covington, Sr. served as Past Master of the Bingham Masonic Lodge in Mebane, Past President of the Burlington Shrine Club, Past Potentate Amran Temple in Raleigh and Past Chairman of the North South Shrine Bowl; and

**WHEREAS**, Jim Covington, Sr. committed himself as Chairman of the Burlington Shriners Fish Fry for over 38 years. His commitment provided financial assistance and food for those less fortunate; and

**WHEREAS**, Jim Covington, Sr. has been an active, lifelong member of Hawfields Presbyterian Church in Mebane where he has served as a Deacon and on the Board of Elders. He has also demonstrated leadership through support of various local, national and international missions, and is a strong supporter of the children's and youth ministries; and

**WHEREAS**, the Graham City Council requests to name the Jimmy Kerr Road Bridge over I-40 in honor of Jim Covington, Sr. for his outstanding service and contributions to Alamance County and the State.

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

That the North Carolina Board of Transportation names the Jimmy Kerr Road Bridge over I-40 in Alamance County the *Jim Covington Sr. Bridge*.

That appropriate signs will be erected at a suitable time.

Adopted, this the first day of December 2016 by the North Carolina Board of Transportation.

  
Chairman

  
Secretary of Transportation

## RESOLUTION FOR TROOPER DUSTIN BOWICK

**WHEREAS**, Dustin “Dusty” R. Bowick was employed by the North Carolina State Highway Patrol on August 5, 2009, and attended the 126<sup>th</sup> Patrol Basic School; and

**WHEREAS**, after graduation on February 25<sup>th</sup>, 2010, he was assigned to Troop B, District 3, Onslow County in Jacksonville, North Carolina; and

**WHEREAS**, Trooper Bowick was transferred to Troop D, District 6, Randolph County in Asheboro on January 9, 2012, where he proudly served the North Carolina State Highway Patrol and the people of Randolph County until his death on August 20, 2012, at the age of 28, after a fearless battle with cancer; and

**WHEREAS**, Trooper Bowick served the Patrol in an exemplary manner during his short tenure. Seldom is a Trooper of such brevity with the Highway Patrol nominated for the “Trooper of the Year” Award; and

**WHEREAS**, the actions and career of Trooper Bowick serve as a worthy example for all citizens of Randolph County; and

**WHEREAS**, the Randolph County Board of Commissioners requests to name the bridge located on Cedar Square Road over Interstate 74 in Randolph County in memory of Trooper Dusty R. Bowick for his outstanding service.

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

That the North Carolina Board of Transportation names the bridge located on Cedar Square Road over Interstate 74 in Randolph County as the *Trooper Dustin R. Bowick Bridge*.

That appropriate signs will be erected at a suitable time.

Adopted, this the first day of December 2016 by the North Carolina Board of Transportation.

  
Chairman

  
Secretary of Transportation

**DBE/MB/WB LETTING SUMMARY**

Federal Contract Awards Summary

Oct 2016 let through Nov 2016 let

Federal Fiscal Year 2016/2017

	Value Of Contract	DBE Goals Set		DBE Participation Submitted		DBE Participation Split			
						MB		WB	
						\$	%	\$	%
<b>Monthly</b>	<b>116,766,695.81</b>	<b>12,003,100.66</b>	<b>10.3</b>	<b>9,721,123.40</b>	<b>8.3</b>	<b>2,498,808.60</b>	<b>2.1</b>	<b>7,222,314.80</b>	<b>6.2</b>
<b>FY to Date</b>	<b>133,350,762.25</b>	<b>12,759,572.65</b>	<b>9.6</b>	<b>10,550,476.30</b>	<b>7.9</b>	<b>2,498,808.60</b>	<b>1.9</b>	<b>8,051,667.70</b>	<b>6.0</b>

State Contract Awards Summary

Jul 2016 let through Nov 2016 let

State Fiscal Year 2016/2017

	Value Of Contract	MB Goals Set		MB Participation Submitted		WB Goals Set		WB Participation Submitted	
		\$	%	\$	%	\$	%	\$	%
		<b>Monthly</b>	<b>67,499,119.43</b>	<b>2,605,350.42</b>	<b>3.9</b>	<b>966,035.10</b>	<b>1.4</b>	<b>3,681,916.49</b>	<b>5.5</b>
<b>FY to Date</b>	<b>228,102,497.09</b>	<b>6,368,852.71</b>	<b>2.8</b>	<b>5,392,394.20</b>	<b>2.4</b>	<b>9,774,125.12</b>	<b>4.3</b>	<b>12,974,191.90</b>	<b>5.7</b>

Letting Date(s): November 22, 15, 2016

Award Date: Dec 01, 2016

Award Subject to BOT's Approval



November 30, 2016

*Financial Update  
As of October 2016*

David Tyeryar, Chief Financial Officer



# Financial Update

## SFYTD 2017 as compared SFYTD 2016

Dollars in Millions	<u>October 16</u>	<u>October 15</u>	Year to Date		
			<u>October 16</u>	<u>October 15</u>	<u>\$ Change</u>
Revenue Collections	\$ 440	\$ 340	\$ 1,896	\$ 1,635	\$ 261
Expenditures	<u>431</u>	<u>379</u>	<u>1,837</u>	<u>1,633</u>	<u>204</u>
Net Change	\$ 9	\$ (39)	\$ 59	\$ 2	\$ 57
	<u>October 16</u>	<u>October 15</u>			
Cash Balances:					
Trust Fund	\$ 1,421	\$ 1,229			
Highway Fund*	<u>263</u>	<u>171</u>			
Totals	<u>\$ 1,684</u>	<u>\$ 1,400</u>			

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



Unaudited Financial Report

Transportation

# Revenue Summary October 2016

## (\$ in Millions)

	October 2016	October 2015	Year Over Year				SFY Budget	
			2016-2017 Actual	2015-2016 Actual	\$	%	Annual Budget	%
<b>State &amp; Federal Receipts:</b>								
Highway Fund *	\$ 163.1	\$ 139.8	\$ 727.3	\$ 663.4	\$ 63.9	10%	2,048.7	36%
Highway Trust Fund *	115.5	133.6	500.1	476.6	23.5	5%	1,371.3	36%
Total State Funds	278.6	273.4	1,227.4	1,140.0	87.4	8%	\$ 3,420.0	36%
Federal Funds/Participation	95.9	47.5	461.3	439.9	21.4	5%	1,257.7	37%
GARVEE Reimbursement/NCTA	65.7	19.2	206.8	55.0	151.8			
Total	\$ 440.2	\$ 340.1	\$ 1,895.5	\$ 1,634.9	\$ 260.6	16%	\$ 4,677.7	41%
	October 2016	October 2015	Year Over Year				SFY Budget	
			2016-2017 Actual	2015-2016 Actual	\$	%	Annual Budget	%
<b>* Memo</b>								
<b>Highway Fund &amp; Trust Fund Details</b>								
Motor Fuel Taxes	\$ 155.9	\$ 158.8	\$ 655.2	\$ 666.2	\$ (11.0)	-2%	\$ 1,782.8	37%
Highway Use Tax	58.9	57.7	259.2	241.7	17.5	7%	659.8	39%
DMV/Other Revenue	63.0	56.3	309.7	230.3	79.4	34%	974.4	32%
Investment Income	0.8	0.6	3.4	1.8	1.5	83%	3.0	112%
Total	\$ 278.6	\$ 273.4	\$ 1,227.4	\$ 1,140.0	\$ 87.4	8%	\$ 3,420.0	36%



# Expenditure Summary October 2016

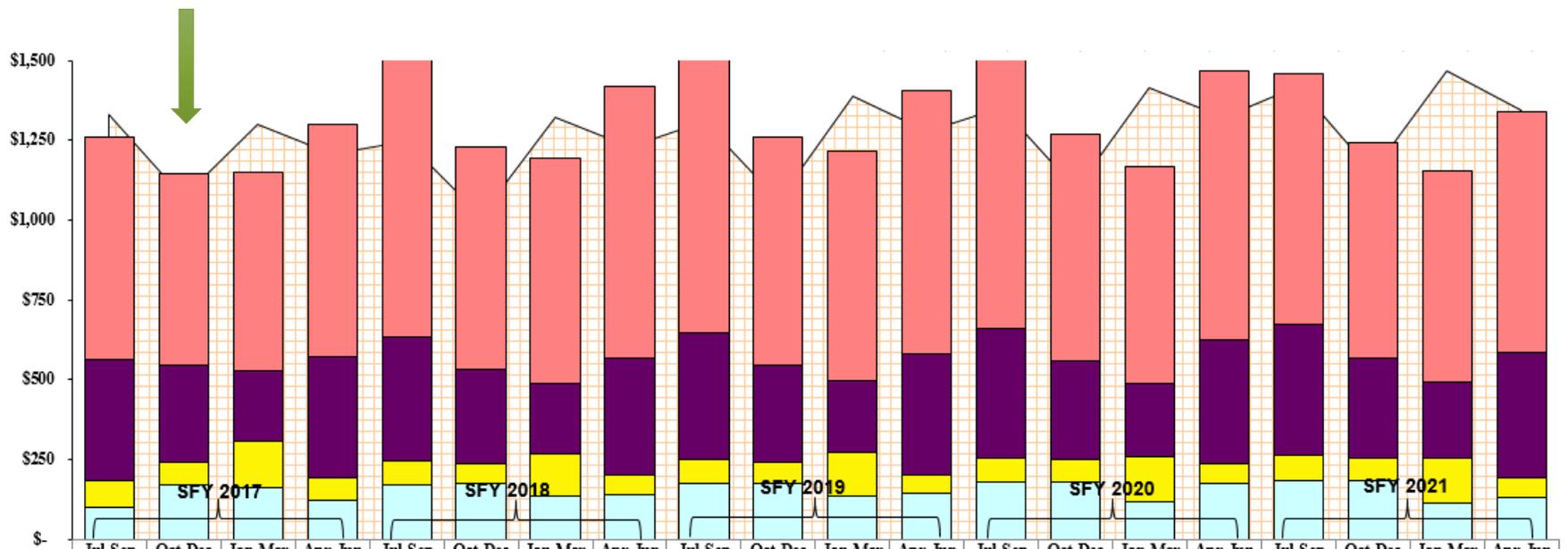
## (\$ in millions)

			Year Over Year				SFY Annual Budget	
	Oct-16	Oct-15	2016-2017 Actual	2015-2016 Actual	\$	%	2016-2017 Budget	%
<b>State &amp; Federal Funded Programs:</b>								
Construction	\$ 225.6	\$ 192.4	\$ 897.4	\$ 764.0	\$ 133.4	17%	\$ 2,304.7	39%
Maintenance	110.4	103.9	490.8	463.3	27.5	6%	1,293.0	38%
Public Transportation	5.5	4.1	32.7	24.9	7.8	31%	126.9	26%
Other Modal/Other Programs	13.3	15.0	56.5	47.5	9.0	19%	231.9	24%
Administration	20.9	22.3	25.1	45.2	(20.1)	NA	316.9	8%
Municipal Aid	-	-	73.6	73.9	(0.3)	0%	147.5	50%
Transfers to Other Agencies	3.9	19.6	14.9	22.0	(7.1)	NA	47.3	32%
<b>Total Expenditures</b>	<b>\$ 379.6</b>	<b>\$ 357.3</b>	<b>\$ 1,591.0</b>	<b>\$ 1,440.7</b>	<b>\$ 150.3</b>	<b>10%</b>	<b>\$ 4,468.2</b>	<b>36%</b>
<b>GARVEE/NCTA/Special Initiatives</b>	<b>\$ 51.3</b>	<b>\$ 21.7</b>	<b>\$ 246.3</b>	<b>\$ 192.5</b>	<b>\$ 53.7</b>		<b>209.4</b>	



# 60 Month Cash Model

## Revenue & Expenditure Projections as of October 2016

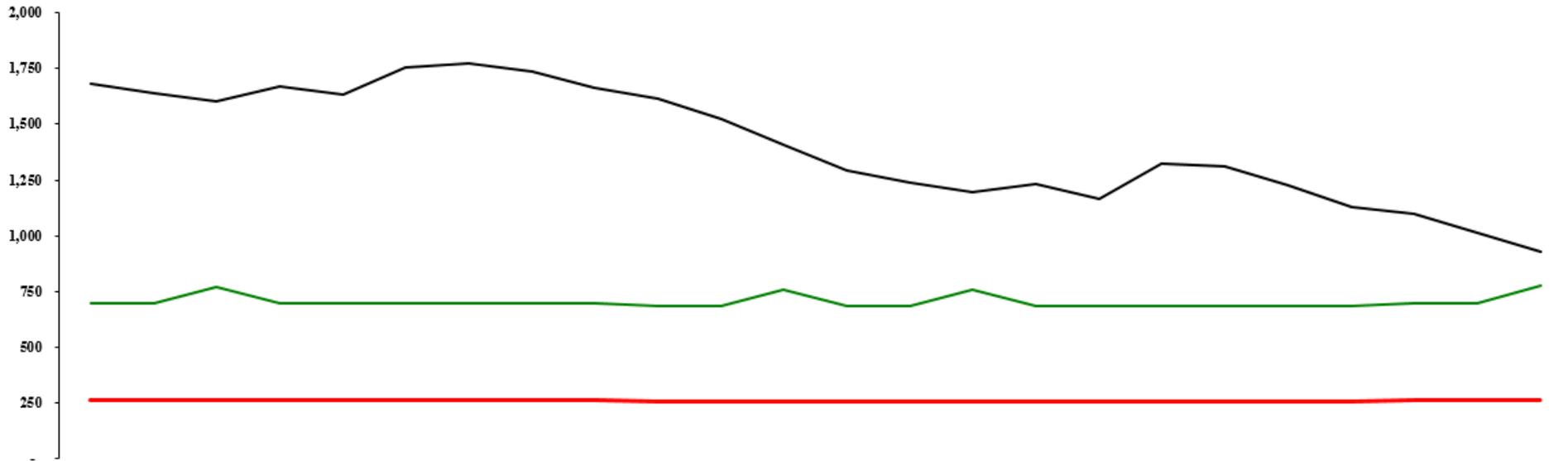


	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun																
□ Revenues	\$1,330	\$1,071	\$1,302	\$1,209	\$1,249	\$1,014	\$1,324	\$1,228	\$1,311	\$1,063	\$1,388	\$1,277	\$1,354	\$1,099	\$1,417	\$1,324	\$1,419	\$1,149	\$1,466	\$1,344
■ Construction Expenditures	696	600	620	730	870	696	709	849	866	713	718	821	842	709	678	844	786	673	662	752
■ Maintenance Expenditures	380	306	222	379	385	296	221	370	395	303	226	379	403	310	231	387	413	317	236	396
■ Other Modes	84	71	144	69	75	64	132	59	77	66	135	60	78	67	138	62	80	69	141	63
□ Other Expenditures	100	169	162	124	172	174	135	141	175	177	137	144	178	181	120	176	182	184	114	129



# 24 Month Cash Model

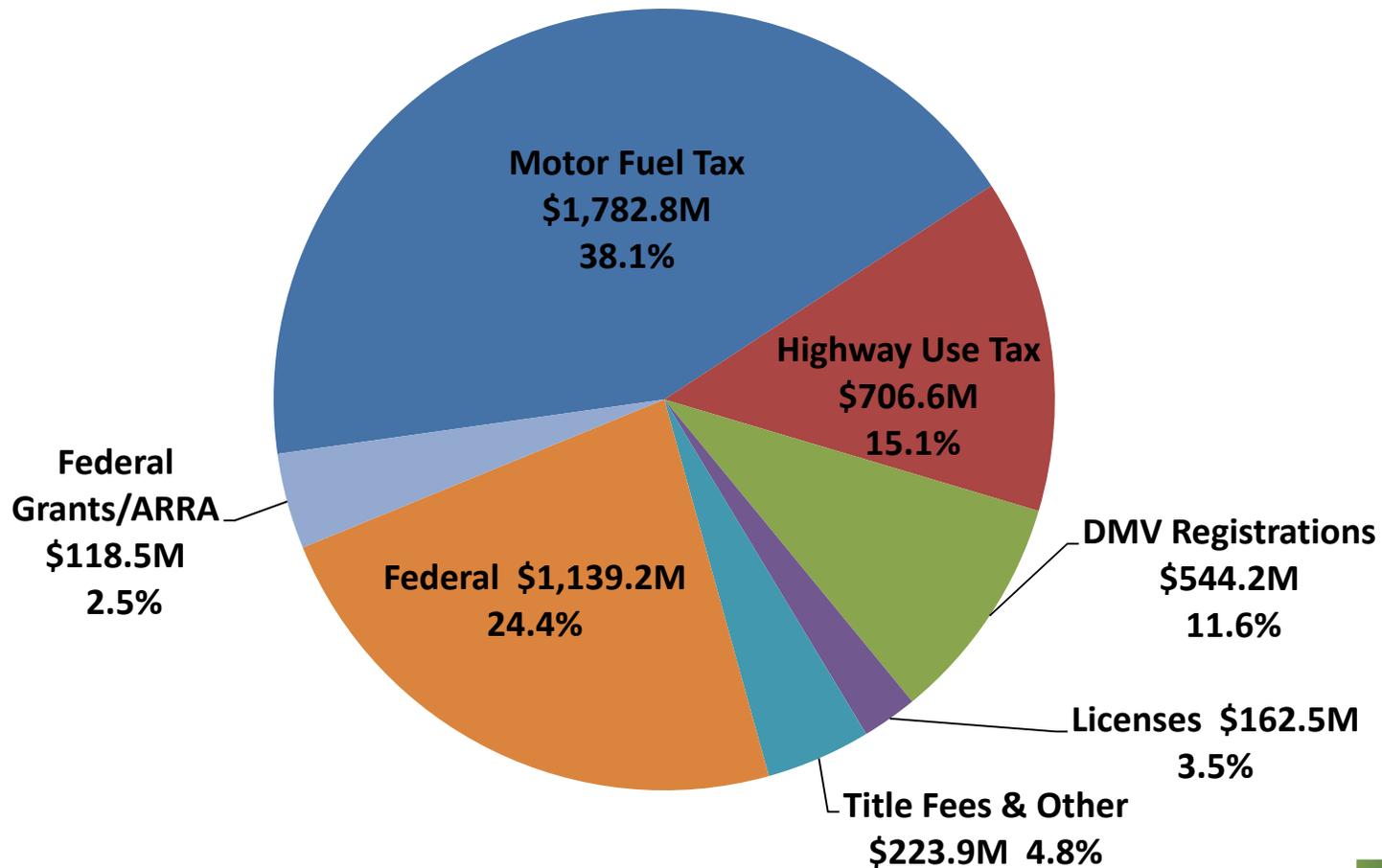
## Cash Projections as of October 2016



	Oct-16	Nov-16	Dec-16	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Dec-17	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18
— Closing Cash Balance	1,683	1,638	1,602	1,669	1,633	1,755	1,775	1,735	1,662	1,617	1,521	1,408	1,294	1,238	1,193	1,229	1,167	1,320	1,311	1,227	1,130	1,097	1,013	928
— Cash Balance Target	696	696	770	696	696	696	696	696	696	684	684	757	684	684	757	684	684	684	684	684	684	700	700	775
— Cash Balance Floor	261	261	261	261	261	261	261	261	261	261	257	257	257	257	257	257	257	257	257	257	257	263	263	263



# NCDOT Revenue Sources SFY2017 - \$4.7 Billion

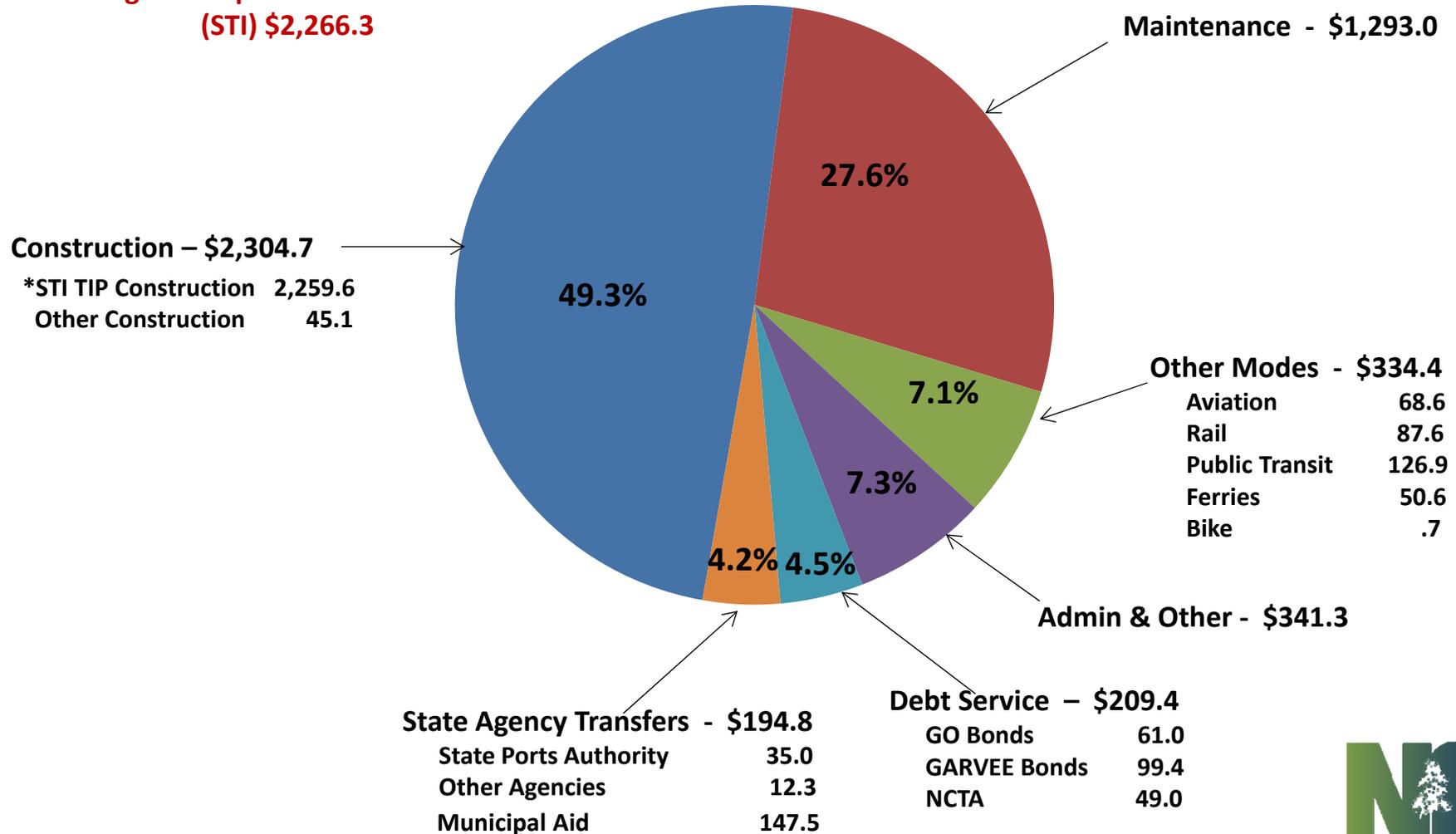


# Uses of 2016-17 NCDOT Appropriations

## Total Funding = \$4.7 Billion

(Excludes Receipt Supported Funding of \$0.1B)

**Strategic Transportation Investments  
(STI) \$2,266.3**



(\$ in millions)

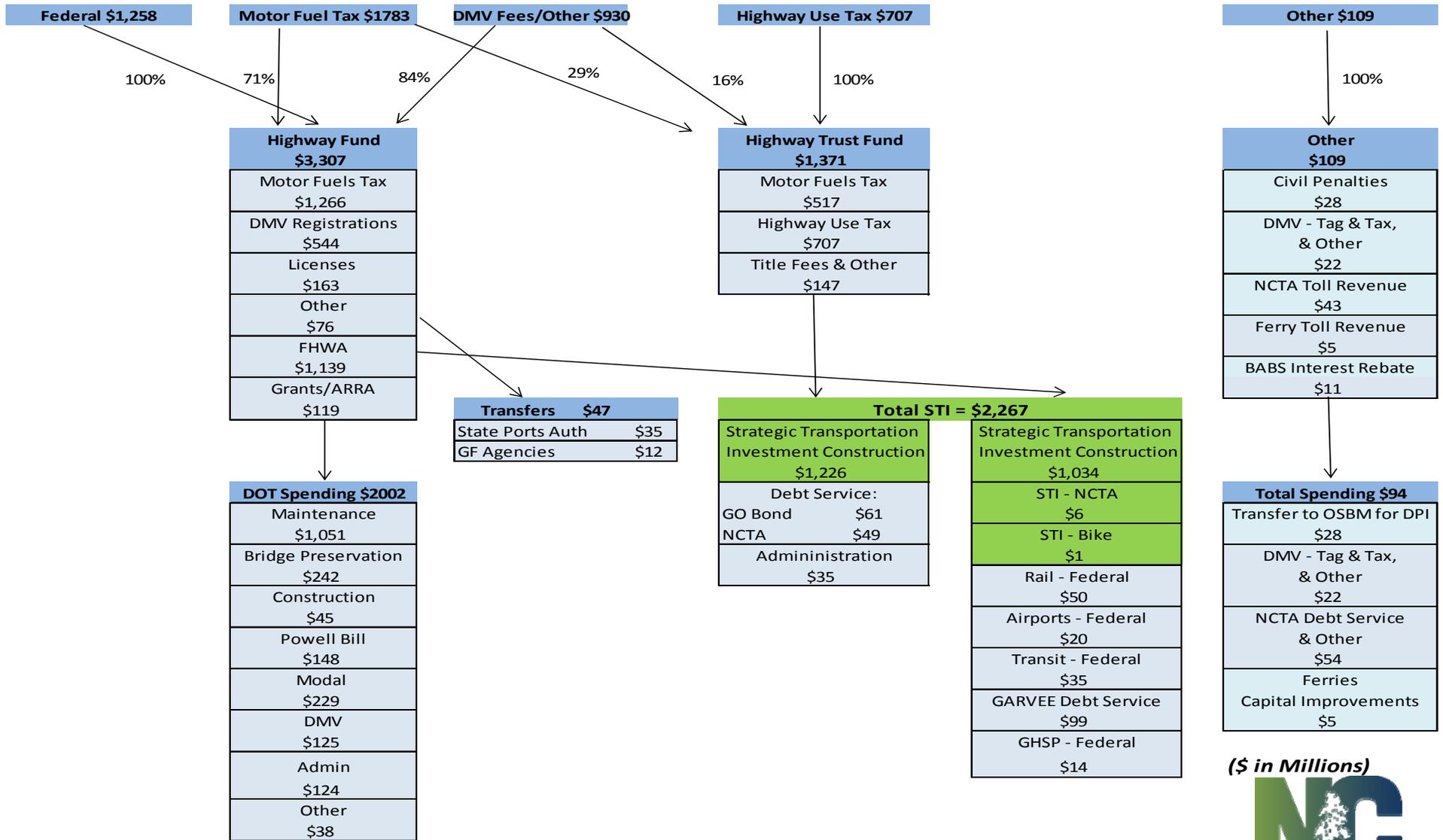


Unaudited Financial Report

Transportation

# SFY2017 NCDOT Sources and Uses

## Total Funding = \$4.8 Billion



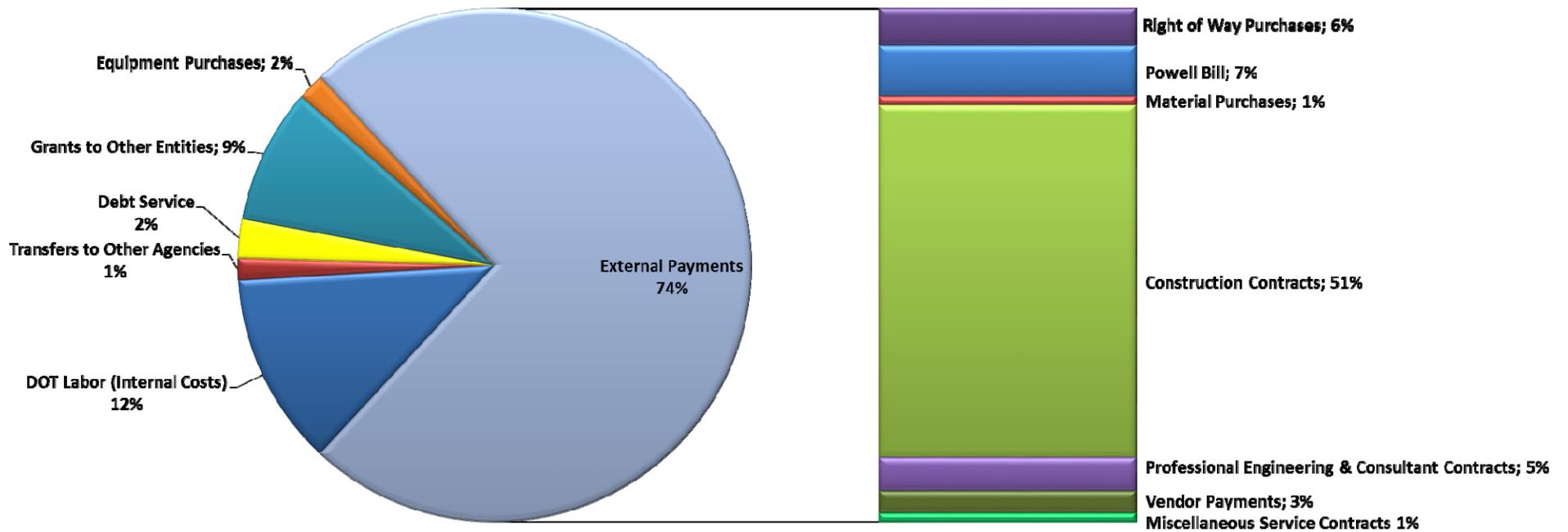
(Includes Receipt Supported Funding of \$0.1B)



Unaudited Financial Report  
Transportation

# NCDOT Expenditures

## SFY2017 as of October 31, 2016



REVISIONS TO THE 2016-2025 STIP  
HIGHWAY PROGRAM  
STIP ADDITIONS

**DIVISION 5**

\* P-5715 CSX, CROSSING 630607N AT NEW HOPE CHURCH  
WAKE ROAD IN RALEIGH. CONSTRUCT GRADE SEPARATION.  
PROJ.CATEGORY PROGRAMMED FOR PLANNING AND ENVIRONMENTAL  
REGIONAL STUDY ONLY, AT REQUEST OF RAIL DIVISION.

\* P-5716 NORFOLK SOUTHERN H LINE, CROSSING 735236Y AT  
DURHAM SR 1171 (ELLIS ROAD) IN DURHAM. CONSTRUCT  
PROJ.CATEGORY GRADE SEPARATION.  
REGIONAL PROGRAMMED FOR PLANNING AND ENVIRONMENTAL  
STUDY ONLY, AT REQUEST OF RAIL DIVISION.

\* P-5717 NORFOLK SOUTHERN H LINE, CROSSING 734742W AT  
DURHAM SR 1121 (CORNWALLIS ROAD) IN DURHAM.  
PROJ.CATEGORY CONSTRUCT GRADE SEPARATION.  
REGIONAL PROGRAMMED FOR PLANNING AND ENVIRONMENTAL  
STUDY ONLY, AT REQUEST OF RAIL DIVISION.

\* P-5718 CSX, CROSSING 643351A AT SR 1415 (NORTHEAST  
WAKE MAYNARD ROAD) IN CARY. CONSTRUCT GRADE  
PROJ.CATEGORY SEPARATION.  
REGIONAL PROGRAMMED FOR PLANNING AND ENVIRONMENTAL  
STUDY ONLY, AT REQUEST OF RAIL DIVISION.

\* P-5720 CSX, CROSSING 630601X AT SR 2006 (DURANT ROAD)  
WAKE IN RALEIGH. CONSTRUCT GRADE SEPARATION.  
PROJ.CATEGORY PROGRAMMED FOR PLANNING AND ENVIRONMENTAL  
REGIONAL STUDY ONLY, AT REQUEST OF RAIL DIVISION.

**DIVISION 7**

\* P-5713 NORTH CAROLINA RAILROAD (NCRR) / NORFOLK  
GUILFORD SOUTHERN RAILROAD, SR 1424 (HILLTOP ROAD) IN  
PROJ.CATEGORY GREENSBORO. CONVERT AT-GRADE CROSSING TO  
STATEWIDE GRADE SEPARATION.  
PROGRAMMED FOR PLANNING AND ENVIRONMENTAL  
STUDY ONLY, AT REQUEST OF RAIL DIVISION.

**These items are for informational purposes only and subject to future NC Board of Transportation approval.**  
**It is anticipated that these items will be considered for NC Board of Transportation approval in 30 days.**

\* INDICATES FEDERAL AMENDMENT

REVISIONS TO THE 2016-2025 STIP  
HIGHWAY PROGRAM  
STIP ADDITIONS

**DIVISION 7**

\* P-5714 NCRR NORFOLK SOUTHERN, POMONA YARD. EXTEND  
GUILFORD AUXILIARY TRACK AND ADD POWER TURNOUTS.  
PROJ.CATEGORY PROGRAMMED FOR PLANNING AND ENVIRONMENTAL  
REGIONAL STUDY ONLY, AT REQUEST OF RAIL DIVISION.

\* P-5719 NCRR, PIEDMONT SERVICE EXPANSION. PURCHASE 5  
ALAMANCE BI-LEVEL PASSENGER CARS.  
CABARRUS PROGRAMMED FOR PLANNING AND ENVIRONMENTAL  
DAVIDSON STUDY ONLY, AT REQUEST OF RAIL DIVISION.  
DURHAM  
GUILFORD  
MECKLENBURG  
ORANGE  
RANDOLPH  
ROWAN  
WAKE  
PROJ.CATEGORY  
REGIONAL

\* P-5721 NORFOLK SOUTHERN, JAMESTOWN SIDING IN  
GUILFORD JAMESTOWN. CONSTRUCT EXTENSION.  
PROJ.CATEGORY PROGRAMMED FOR PLANNING AND ENVIRONMENTAL  
REGIONAL STUDY ONLY, AT REQUEST OF RAIL DIVISION.

**DIVISION 9**

\* P-5722 NORFOLK SOUTHERN, KIMBERLY CLARK IN  
DAVIDSON LEXINGTON. CONSTRUCT LEAD.  
PROJ.CATEGORY PROGRAMMED FOR PLANNING AND ENVIRONMENTAL  
REGIONAL STUDY ONLY, AT REQUEST OF RAIL DIVISION.

\* P-5723 NORFOLK SOUTHERN, VICINITY OF 22ND STREET IN  
ROWAN KANNAPOLIS. CONSTRUCT GRADE SEPARATION AND  
PROJ.CATEGORY CLOSE CROSSINGS 724399C AND 724398V.  
REGIONAL PROGRAMMED FOR PLANNING AND ENVIRONMENTAL  
STUDY ONLY, AT REQUEST OF RAIL DIVISION.

**These items are for informational purposes only and subject to future NC Board of Transportation approval.**  
**It is anticipated that these items will be considered for NC Board of Transportation approval in 30 days.**

\* INDICATES FEDERAL AMENDMENT

REVISIONS TO THE 2016-2025 STIP  
HIGHWAY PROGRAM  
STIP ADDITIONS

**DIVISION 10**

* I-5405C	I-77, I-277 (BROOKSHIRE FREEWAY) TO WEST	IMPLEMENTATION	FY 2017 -	\$295,000	(STBG)
IREDELL	CATAWBA AVENUE (EXIT 28). PROVIDE ADDITIONAL		FY 2018 -	\$531,000	(STBG)
MECKLENBURG	EXPRESS BUS SERVICE TO MITIGATE TRAFFIC		FY 2019 -	\$548,000	(STBG)
PROJ.CATEGORY	CONGESTION DURING CONSTRUCTION.			\$1,374,000	
EXEMPT	<u>PROJECT ADDED AT REQUEST OF PUBLIC TRANSPORTATION DIVISION.</u>				

* P-5712	NORFOLK SOUTHERN MAINLINE, GRADE SEPARATION
CABARRUS	AT ROGERS LAKE ROAD CROSSING (724408Y) IN
PROJ.CATEGORY	KANNAPOLIS.
STATEWIDE	<u>PROGRAMMED FOR PLANNING AND ENVIRONMENTAL STUDY ONLY, AT REQUEST OF RAIL DIVISION.</u>

**DIVISION 14**

* I-5834	I-40, MILE MARKER 27 TO MILE MARKER 34.	CONSTRUCTION	FY 2019 -	\$7,400,000	(NHPIM)
HAYWOOD	PAVEMENT REHABILITATION.			\$7,400,000	
PROJ.CATEGORY	<u>PROJECT ADDED AT REQUEST OF DIVISION.</u>				
STATEWIDE	<u>PROJECT WAS INADVERTENTLY DELETED FROM STIP IN NOVEMBER 2016.</u>				

STIP MODIFICATIONS

**DIVISION 2**

R-1015DIV	US 70 (HAVELOCK BYPASS), NORTH OF PINE GROVE	RIGHT-OF-WAY	FY 2017 -	\$5,713,000	(NHP)
CRAVEN	TO NORTH OF CARTERET COUNTY LINE. CONSTRUCT		FY 2018 -	\$5,712,000	(NHP)
PROJ.CATEGORY	MULTI-LANE FACILITY ON NEW LOCATION.	UTILITIES	FY 2017 -	\$845,000	(NHP)
DIVISION	<u>TO ALLOW ADDITIONAL TIME FOR FHWA APPROVAL OF ROD, DELAY RIGHT-OF-WAY FROM FY 16 TO FY 17 AND CONSTRUCTION FROM FY 18 TO FY 19.</u>	CONSTRUCTION	FY 2019 -	\$4,969,000	(S(M))
			FY 2020 -	\$4,969,000	(S(M))
			FY 2021 -	\$4,969,000	(S(M))
			FY 2022 -	\$4,969,000	(S(M))
		GARVEE CONSTR	FY 2019 -	\$5,116,000	(NHP)
			FY 2020 -	\$5,116,000	(NHP)
			FY 2021 -	\$5,116,000	(NHP)
			FY 2022 -	\$5,116,000	(NHP)
			FY 2023 -	\$5,116,000	(NHP)
			FY 2024 -	\$5,116,000	(NHP)
			FY 2025 -	\$5,116,000	(NHP)
			FY 2026 -	\$5,116,000	(NHP)
			FY 2027 -	\$5,116,000	(NHP)
			POST YR-	\$30,696,000	(NHP)
				\$108,886,000	

These items are for informational purposes only and subject to future NC Board of Transportation approval.  
It is anticipated that these items will be considered for NC Board of Transportation approval in 30 days.

\* INDICATES FEDERAL AMENDMENT

REVISIONS TO THE 2016-2025 STIP  
HIGHWAY PROGRAM  
STIP MODIFICATIONS

**DIVISION 2**

R-1015REG CRAVEN PROJ.CATEGORY REGIONAL	US 70 (HAVELOCK BYPASS), NORTH OF PINE GROVE TO NORTH OF CARTERET COUNTY LINE. CONSTRUCT MULTI-LANE FACILITY ON NEW LOCATION. <u>TO ALLOW ADDITIONAL TIME FOR FHWA APPROVAL OF ROD, DELAY RIGHT-OF-WAY FROM FY 16 TO FY 17 AND CONSTRUCTION FROM FY 18 TO FY 19.</u>	CONSTRUCTION     GARVEE CONSTR	FY 2019 - FY 2020 - FY 2021 - FY 2022 - FY 2019 - FY 2020 - FY 2021 - FY 2022 - FY 2023 - FY 2024 - FY 2025 - FY 2026 - FY 2027 - POST YR-	\$4,969,000 \$4,969,000 \$4,969,000 \$4,969,000 \$5,116,000 \$5,116,000 \$5,116,000 \$5,116,000 \$5,116,000 \$5,116,000 \$5,116,000 \$5,116,000 \$5,116,000 \$30,696,000	(S(M)) (S(M)) (S(M)) (S(M)) (NHP) (NHP) (NHP) (NHP) (NHP) (NHP) (NHP) (NHP) (NHP) (NHP) (NHP)
				\$96,616,000	

**DIVISION 4**

B-4932 EDGEcombe PROJ.CATEGORY HWY FUNDS	NC 42, REPLACE BRIDGE 320028 OVER TAR RIVER. <u>TO ALLOW ADDITIONAL TIME TO ADDRESS FEMA ISSUES, DELAY CONSTRUCTION FROM FY 17 TO FY 18.</u>	RIGHT-OF-WAY UTILITIES CONSTRUCTION	FY 2017 - FY 2017 - FY 2018 -	\$133,000 \$280,000 \$5,400,000	(HFB) (HFB) (HFB)
				\$5,813,000	

**DIVISION 5**

B-5318 WAKE PROJ.CATEGORY DIVISION	SR 2044 (LIGON MILL ROAD), REPLACE BRIDGE 910126 OVER SMITHS CREEK IN WAKE FOREST. <u>TO ALLOW ADDITIONAL TIME TO ADJUST SCOPE OF WORK, DELAY RIGHT-OF-WAY FROM FY 17 TO FY 18 AND CONSTRUCTION FROM FY 18 TO FY 19</u>	RIGHT-OF-WAY UTILITIES CONSTRUCTION	FY 2018 - FY 2018 - FY 2019 - FY 2020 -	\$180,000 \$1,124,000 \$1,650,000 \$1,650,000	(STPOFF) (STPOFF) (STPOFF) (STPOFF)
				\$4,604,000	

C-5165 WAKE PROJ.CATEGORY EXEMPT	SR 1615 (HIGH HOUSE ROAD), SR 3112 (CARY PARKWAY) IN CARY. INTERSECTION IMPROVEMENTS. <u>TO ALLOW ADDITIONAL TIME FOR THE TOWN TO COMPLETE THE R/W PHASE, DELAY CONSTRUCTION FROM FY 16 TO FY 17</u>	CONSTRUCTION	FY 2017 - FY 2017 -	\$1,728,000 \$432,000	(CMAQ) (L)
				\$2,160,000	

C-5166A GRANVILLE PROJ.CATEGORY EXEMPT	NC 56, GREENWAY IN CREEDMOOR - EASTERN SECTION <u>AT THE REQUEST OF THE DIVISION OFFICE, DELAY CONSTRUCTION FROM FY 16 TO FY 17</u>	CONSTRUCTION	FY 2017 - FY 2017 -	\$765,000 \$191,000	(CMAQ) (L)
				\$956,000	

**These items are for informational purposes only and subject to future NC Board of Transportation approval.  
It is anticipated that these items will be considered for NC Board of Transportation approval in 30 days.**

\* INDICATES FEDERAL AMENDMENT

REVISIONS TO THE 2016-2025 STIP  
HIGHWAY PROGRAM  
STIP MODIFICATIONS

**DIVISION 5**

C-5166B GRANVILLE PROJ.CATEGORY EXEMPT	NC 56, GREENWAY IN CREEDMOOR - WESTERN SECTION <u>AT THE REQUEST OF THE DIVISION OFFICE, DELAY CONSTRUCTION FROM FY 16 TO FY 17</u>	CONSTRUCTION	FY 2017 - \$642,000 (CMAQ) FY 2017 - <u>\$160,000</u> (L) \$802,000
C-5178 DURHAM PROJ.CATEGORY EXEMPT	VARIOUS, CAMPUS WALK AVENUE, MORREENE ROAD TO LASALLE STREET AND LASALLE STREET, KANGAROO DRIVE TO ERWIN ROAD IN DURHAM. CONSTRUCT SIDEWALKS. <u>TO ALLOW ADDITIONAL TIME FOR UTILITY COMPANY TO COMPLETE THEIR WORK, DELAY CONSTRUCTION FROM FY 16 TO FY 17</u>	CONSTRUCTION	FY 2017 - \$269,000 (CMAQ) FY 2017 - <u>\$67,000</u> (L) \$336,000
C-5568 FRANKLIN PROJ.CATEGORY EXEMPT	VARIOUS, TOWN OF LOUISBURG. CONSTRUCT SIDEWALKS AT VARIOUS LOCATIONS. <u>TO ALLOW ADDITIONAL TIME FOR THE TOWN TO COMPLETE THE R/W PHASE, DELAY CONSTRUCTION FROM FY 16 TO FY 17</u>	CONSTRUCTION	FY 2017 - \$148,000 (CMAQ) FY 2017 - <u>\$37,000</u> (L) \$185,000
C-5570 GRANVILLE PROJ.CATEGORY EXEMPT	VARIOUS, TOWN OF STOVALL. CONSTRUCT SIDEWALKS AT STOVALL TOWN CENTER. <u>TO ALLOW TOWN ADDITIONAL TIME TO COMPLETE RIGHT-OF-WAY PHASE, DELAY CONSTRUCTION FROM FY 16 TO FY 17</u>	CONSTRUCTION	FY 2017 - \$68,000 (CMAQ) FY 2017 - <u>\$17,000</u> (L) \$85,000
EB-5513 GRANVILLE PROJ.CATEGORY TRANSITION	US 15, HILLSBOROUGH STREET TO NC 56 IN CREEDMOOR. CONSTRUCT SIDEWALK / PATH. <u>TO ALLOW ADDITIONAL TIME FOR THE TOWN TO COMPLETE THE R/W PHASE, DELAY CONSTRUCTION FROM FY 16 TO FY 17</u>	CONSTRUCTION	FY 2017 - \$560,000 (STPEB) \$560,000

**These items are for informational purposes only and subject to future NC Board of Transportation approval.  
It is anticipated that these items will be considered for NC Board of Transportation approval in 30 days.**

\* INDICATES FEDERAL AMENDMENT

REVISIONS TO THE 2016-2025 STIP  
HIGHWAY PROGRAM  
STIP MODIFICATIONS

**DIVISION 5**

* EL-5100 FRANKLIN GRANVILLE HARNETT JOHNSTON WAKE PROJ.CATEGORY DIVISION	VARIOUS, PEDESTRIAN, BICYCLE, AND TRANSIT PROJECTS IN THE CAPITAL AREA METROPOLITAN PLANNING ORGANIZATION (CAMPO). <u>ADD CONSTRUCTION PHASE IN FY 17 NOT PREVIOUSLY PROGRAMMED, AT THE REQUEST OF THE MPO.</u>	CONSTRUCTION	FY 2017 - \$1,125,000 (TAPDA) FY 2017 - <u>\$281,000</u> (L) \$1,406,000
U-5500B WAKE PROJ.CATEGORY DIVISION	SR 1605 / SR 1615 (GREEN LEVEL WEST ROAD), NC 540 TO NC 55 IN CARY. WIDEN TO 4-LANE DIVIDED FACILITY WITH WIDE OUTSIDE LANES AND SIDEWALKS. <u>PER REQUEST OF THE TOWN TO ADJUST BID ADVERTISING SCHEDULE, DELAY CONSTRUCTION FROM FY 16 TO FY 17</u>	CONSTRUCTION	FY 2017 - \$2,073,000 (STBGDA) FY 2017 - <u>\$2,927,000</u> (L) \$5,000,000
U-5515 WAKE PROJ.CATEGORY DIVISION	SR 1930 (STADIUM DRIVE) SR 1933 (WEST NORTH AVENUE), SR 1930 (STADIUM DRIVE), US 1 TO SR 1954 (NORTH WINGATE STREET) IN WAKE FOREST. COMPLETE STREETS IMPROVEMENTS TO INCLUDE: WIDEN TO THREE-LANE CURB AND GUTTER SECTION, CONSTRUCT SIDEWALK, MULTIUSE PATH, BICYCLE LANES, AND PEDESTRIAN / TRANSIT AMENITIES. SR 1933 (WEST NORTH AVENUE), SR 1954 (NORTH WINGATE STREET) TO US 1A (NORTH MAIN STREET) IN WAKE FOREST. RESURFACING AND SIDEWALK IMPROVEMENTS. <u>TO ALLOW ADDITIONAL TIME FOR THE TOWN TO COMPLETE THE R/W PHASE, DELAY CONSTRUCTION FROM FY 16 TO FY 17</u>	CONSTRUCTION	FY 2017 - \$2,880,000 (STBGDA) FY 2017 - \$720,000 (L) \$3,600,000
U-5529 WAKE PROJ.CATEGORY DIVISION	SR 1115 (AVENT FERRY ROAD), WEST OF SR 1101 (PINEY GROVE - WILBON ROAD) TO VILLAGE WALK DRIVE IN HOLLY SPRINGS. OPERATIONAL IMPROVEMENTS. <u>TO ALLOW ADDITIONAL TIME FOR THE TOWN TO COMPLETE THE CONSTRUCTION PLANS, DELAY RIGHT OF WAY FROM FY 16 TO FY 17</u>	RIGHT-OF-WAY CONSTRUCTION	FY 2017 - \$80,000 (STBGDA) FY 2017 - \$20,000 (L) FY 2017 - \$1,584,000 (STBGDA) FY 2017 - <u>\$396,000</u> (L) \$2,080,000

**These items are for informational purposes only and subject to future NC Board of Transportation approval. It is anticipated that these items will be considered for NC Board of Transportation approval in 30 days.**

\* INDICATES FEDERAL AMENDMENT

REVISIONS TO THE 2016-2025 STIP  
HIGHWAY PROGRAM  
STIP MODIFICATIONS

**DIVISION 5**

* U-5748	US 401, SR 2044 (LIGON MILL ROAD) / SR 2224	RIGHT-OF-WAY	FY 2020 - \$17,465,000 (T)
WAKE	(MITCHELL MILL ROAD) IN RALEIGH. CONVERT AT-		FY 2021 - \$17,465,000 (T)
PROJ.CATEGORY	GRADE INTERSECTION TO INTERCHANGE.	UTILITIES	FY 2020 - \$275,000 (T)
REGIONAL	<u>COST INCREASE EXCEEDING \$2 MILLION AND 25% THRESHOLDS</u>		FY 2021 - \$275,000 (T)
		CONSTRUCTION	FY 2022 - \$9,280,000 (T)
			FY 2023 - \$9,280,000 (T)
			FY 2024 - \$9,280,000 (T)
			\$63,320,000

W-5522	SR 1656 (TRINITY ROAD), SR 1658 (YOUTH CENTER DRIVE) INTERSECTION IN RALEIGH. CONSTRUCT	RIGHT-OF-WAY	FY 2017 - \$300,000 (HSIP)
WAKE	PEDESTRIAN TUNNEL UNDER SR 1656 (TRINITY ROAD).	CONSTRUCTION	FY 2018 - \$3,200,000 (HSIP)
PROJ.CATEGORY	<u>ACCELERATE RIGHT-OF-WAY FROM FY 18 TO FY 17 AND CONSTRUCTION FROM FY 19 TO FY 18 TO COORDINATE CONSTRUCTION SO AS TO MINIMIZE DISRUPTION TO AREA EVENTS.</u>		\$3,500,000
DIVISION			

**DIVISION 7**

B-5553	BALLINGER ROAD, REPLACE BRIDGE 400098 OVER A TRIBUTARY OF HORSEPEN CREEK IN GREENSBORO.	RIGHT-OF-WAY	FY 2017 - \$60,000 (STPON)
GUILFORD	<u>TO ALLOW ADDITIONAL TIME FOR THE CITY TO COMPLETE THE DESIGN PHASE, DELAY RIGHT-OF-WAY FROM FY 16 TO FY 17 AND CONSTRUCTION FROM FY 17 TO FY 18</u>	CONSTRUCTION	FY 2017 - \$15,000 (L)
PROJ.CATEGORY			FY 2018 - \$600,000 (STPON)
DIVISION			FY 2018 - \$150,000 (L)
			\$825,000

EB-5721	ORANGE COUNTY BICYCLE ROUTE 1, CLELAND DRIVE TO WILLOW DRIVE IN CHAPEL HILL. UPGRADE	ENGINEERING	FY 2017 - \$71,000 (TAP)
ORANGE	EXISTING OFF-ROAD PATH AND CONSTRUCT NEW SECTION OF PATH.		FY 2017 - \$18,000 (L)
PROJ.CATEGORY	<u>TO REFLECT TOWN'S CURRENT DELIVERY SCHEDULE, DELAY ENGINEERING FROM FY 16 TO FY 17 AND CONSTRUCTION FROM FY 17 TO FY 18 AT REQUEST OF MPO.</u>	CONSTRUCTION	FY 2018 - \$375,000 (TAP)
DIVISION			FY 2018 - \$94,000 (L)
			\$558,000

**DIVISION 8**

AV-5736	SILER CITY MUNICIPAL AIRPORT (SCR), ACQUIRE NAVIGATION EASEMENTS IN RUNWAY 4 AND RUNWAY 22 APPROACHES, AND REMOVE OBSTRUCTIONS IN EASEMENTS.	CONSTRUCTION	FY 2018 - \$328,000 (T)
CHATHAM	<u>MODIFY PROGRAMMING TO CORRECT PHASE DESIGNATION; TO CONFORM TO AIRPORT AUTHORITY DELIVERY SCHEDULE, DELAY CONSTRUCTION FROM FY 16 TO FY 18 AT REQUEST OF DIVISION OF AVIATION.</u>		FY 2018 - \$37,000 (L)
PROJ.CATEGORY			\$365,000
DIVISION			

**These items are for informational purposes only and subject to future NC Board of Transportation approval. It is anticipated that these items will be considered for NC Board of Transportation approval in 30 days.**

\* INDICATES FEDERAL AMENDMENT

REVISIONS TO THE 2016-2025 STIP  
HIGHWAY PROGRAM  
STIP MODIFICATIONS

**DIVISION 8**

* AV-5762	RALEIGH EXECUTIVE SANFORD - LEE COUNTY	CONSTRUCTION	FY 2017 -	\$1,966,000	(T)
LEE	AIRPORT (TTA), CONSTRUCT CORPORATE AREA		FY 2017 -	\$1,500,000	(T)
PROJ.CATEGORY	APRON PHASE I.		FY 2017 -	\$219,000	(L)
DIVISION	<u>ACCELERATE CONSTRUCTION FROM FY 20 TO FY 17,</u>			\$3,685,000	
	<u>ADD \$1.5 M IN ECONOMIC DEVELOPMENT FUNDING</u>				
	<u>AND MODIFY DESCRIPTION AT THE REQUEST OF THE</u>				
	<u>DIVISION OF AVIATION.</u>				
B-5741	SR 1425 (LEE'S MILL ROAD), REPLACE BRIDGE 820030	RIGHT-OF-WAY	FY 2017 -	\$60,000	(HFB)
SCOTLAND	OVER JUNIPER CREEK.	CONSTRUCTION	FY 2017 -	\$588,000	(HFB)
PROJ.CATEGORY	<u>ACCELERATE CONSTRUCTION FROM FY 24 TO FY 17</u>			\$648,000	
HWY FUNDS	<u>AT THE REQUEST OF THE DIVISION OFFICE</u>				
B-5744	SR 1615 (HASTY ROAD), REPLACE BRIDGE 820050	RIGHT-OF-WAY	FY 2017 -	\$145,000	(HFB)
SCOTLAND	OVER BRIDGE CREEK.	CONSTRUCTION	FY 2017 -	\$1,450,000	(HFB)
PROJ.CATEGORY	<u>ACCELERATE CONSTRUCTION FROM FY 21 TO FY 17</u>			\$1,595,000	
HWY FUNDS	<u>AT THE REQUEST OF THE DIVISION OFFICE</u>				
B-5746	SR 1645 (DIXIE GUANO ROAD), REPLACE BRIDGE	RIGHT-OF-WAY	FY 2017 -	\$60,000	(HFB)
SCOTLAND	820043 OVER LEITHS CREEK.	CONSTRUCTION	FY 2017 -	\$575,000	(HFB)
PROJ.CATEGORY	<u>ACCELERATE CONSTRUCTION FROM FY 24 TO FY 17</u>			\$635,000	
HWY FUNDS	<u>AT THE REQUEST OF THE DIVISION OFFICE</u>				
B-5749	SR 1421 (MCINTOSH ROAD), REPLACE BRIDGE 820036	RIGHT-OF-WAY	FY 2017 -	\$130,000	(HFB)
SCOTLAND	OVER BIG SHOE HEEL CREEK.	CONSTRUCTION	FY 2017 -	\$1,300,000	(HFB)
PROJ.CATEGORY	<u>ACCELERATE CONSTRUCTION FROM FY 22 TO FY 17</u>			\$1,430,000	
HWY FUNDS	<u>AT THE REQUEST OF THE DIVISION OFFICE</u>				
B-5755	SR 1406 (ROCKFISH ROAD), REPLACE BRIDGE 460057	CONSTRUCTION	FY 2017 -	\$893,000	(T)
HOKE	OVER PUPPY CREEK.			\$893,000	
PROJ.CATEGORY	<u>ACCELERATE CONSTRUCTION FROM FY 23 TO FY 17</u>				
DIVISION	<u>AT THE REQUEST OF THE DIVISION OFFICE</u>				

**These items are for informational purposes only and subject to future NC Board of Transportation approval.**  
**It is anticipated that these items will be considered for NC Board of Transportation approval in 30 days.**

\* INDICATES FEDERAL AMENDMENT

REVISIONS TO THE 2016-2025 STIP  
HIGHWAY PROGRAM  
STIP MODIFICATIONS

**DIVISION 8**

B-5928	SR 2614 (GRANTVILLE LANE), REPLACE BRIDGE 750175	RIGHT-OF-WAY	FY 2017 -	\$25,000	(HFB)
RANDOLPH	OVER MILL CREEK.	UTILITIES	FY 2017 -	\$50,000	(HFB)
PROJ.CATEGORY	<u>ACCELERATE CONSTRUCTION FROM FY 22 TO FY 17</u>	CONSTRUCTION	FY 2017 -	\$725,000	(HFB)
HWY FUNDS	<u>AT THE REQUEST OF THE DIVISION OFFICE</u>			\$800,000	

**DIVISION 9**

AV-5738	SMITH REYNOLDS AIRPORT (INT), ACQUIRE LAND AND	CONSTRUCTION	FY 2017 -	\$1,890,000	(T)
FORSYTH	CLEAR TERRAIN OBSTRUCTIONS EAST OF RUNWAY 15-		FY 2017 -	\$210,000	(L)
PROJ.CATEGORY	33 TO DRAIN AND GRADE MATERIAL IN PLACE.			\$2,100,000	
DIVISION	<u>TO CONFORM TO AIRPORT AUTHORITY DELIVERY</u>				
	<u>SCHEDULE, DELAY CONSTRUCTION FROM FY 16 TO</u>				
	<u>FY 17 AT REQUEST OF DIVISION OF AVIATION.</u>				
I-0911A	I-40, WEST OF NC 801 IN DAVIE COUNTY TO SR 1101	RIGHT-OF-WAY	FY 2017 -	\$125,000	(NHP)
DAVIE	(HARPER ROAD) IN FORSYTH COUNTY.	UTILITIES	FY 2017 -	\$70,000	(NHP)
FORSYTH	<u>ACCELERATE CONSTRUCTION FROM FY 18 TO FY 17;</u>	CONSTRUCTION	FY 2017 -	\$2,900,000	(NHP)
PROJ.CATEGORY	<u>PROJECT TO BE LET USING DESIGN-BUILD DELIVERY.</u>		FY 2018 -	\$18,367,000	(NHP)
REGIONAL			FY 2019 -	\$18,367,000	(NHP)
			FY 2020 -	\$18,366,000	(NHP)
				\$58,195,000	
* I-5814	I-40, 0.4 MILE EAST OF SR 2632 (OLD SALEM ROAD) IN	CONSTRUCTION	FY 2020 -	\$3,226,000	(NHPIM)
FORSYTH	FORSYTH COUNTY TO 0.3 MILE WEST OF SR 1860			\$3,226,000	
GUILFORD	(MACY GROVE ROAD) IN GUILFORD COUNTY.				
PROJ.CATEGORY	PAVEMENT REHABILITATION.				
STATEWIDE	<u>TO PREVENT CONFLICT WITH I-40 BUS./US 421</u>				
	<u>CLOSURE, DELAY CONSTRUCTION FROM FY 19 TO FY</u>				
	<u>20</u>				

These items are for informational purposes only and subject to future NC Board of Transportation approval.  
It is anticipated that these items will be considered for NC Board of Transportation approval in 30 days.

\* INDICATES FEDERAL AMENDMENT

REVISIONS TO THE 2016-2025 STIP  
HIGHWAY PROGRAM  
STIP MODIFICATIONS

**DIVISION 9**

* R-2247EB	NEW ROUTE (FUTURE NC 452), WINSTON-SALEM	RIGHT-OF-WAY	FY 2018 -	\$24,090,000	(T)
FORSYTH	NORTHERN BELTWAY, WESTERN SECTION,	CONSTRUCTION	FY 2018 -	\$650,000	(NHP)
PROJ.CATEGORY	INTERCHANGE AT US 52		FY 2018 -	\$1,250,000	(S(M))
STATEWIDE	<u>ACCELERATE RIGHT-OF-WAY FROM FY 19 TO FY 18</u>		FY 2019 -	\$4,117,000	(NHP)
	<u>AND CONSTRUCTION FROM FY 22 TO FY 18; PROJECT</u>		FY 2019 -	\$7,917,000	(S(M))
	<u>TO BE LET USING DESIGN-BUILD DELIVERY AND</u>		FY 2020 -	\$4,117,000	(NHP)
	<u>GARVEE BOND FINANCING.</u>		FY 2020 -	\$7,917,000	(S(M))
			FY 2021 -	\$4,116,000	(NHP)
			FY 2021 -	\$7,916,000	(S(M))
		GARVEE CONSTR	FY 2018 -	\$6,435,000	(NHP)
			FY 2019 -	\$6,435,000	(NHP)
			FY 2020 -	\$6,435,000	(NHP)
			FY 2021 -	\$6,435,000	(NHP)
			FY 2022 -	\$6,435,000	(NHP)
			FY 2023 -	\$6,435,000	(NHP)
			FY 2024 -	\$6,435,000	(NHP)
			FY 2025 -	\$6,435,000	(NHP)
			FY 2026 -	\$6,435,000	(NHP)
			FY 2027 -	\$6,435,000	(NHP)
			POST YR-	\$32,175,000	(NHP)
				\$158,615,000	

* U-2579AB	FUTURE I-74, WINSTON-SALEM NORTHERN BELTWAY,	RIGHT-OF-WAY	FY 2018 -	\$55,800,000	(T)
FORSYTH	EASTERN SECTION, I-40 TO US 421 / NC 150 /	UTILITIES	FY 2018 -	\$2,800,000	(T)
PROJ.CATEGORY	BUSINESS 40	CONSTRUCTION	FY 2018 -	\$7,250,000	(NHP)
REGIONAL	<u>ACCELERATE CONSTRUCTION FROM FY 21 TO FY 18;</u>		FY 2018 -	\$7,500,000	(S(M))
	<u>PROJECT TO BE LET USING DESIGN-BUILD DELIVERY</u>		FY 2019 -	\$7,250,000	(NHP)
	<u>AND GARVEE BOND FINANCING.</u>		FY 2019 -	\$7,500,000	(S(M))
			FY 2020 -	\$7,250,000	(NHP)
			FY 2020 -	\$7,500,000	(S(M))
			FY 2021 -	\$7,250,000	(NHP)
			FY 2021 -	\$7,500,000	(S(M))
		GARVEE CONSTR	FY 2018 -	\$7,722,000	(NHP)
			FY 2019 -	\$7,722,000	(NHP)
			FY 2020 -	\$7,722,000	(NHP)
			FY 2021 -	\$7,722,000	(NHP)
			FY 2022 -	\$7,722,000	(NHP)
			FY 2023 -	\$7,722,000	(NHP)
			FY 2024 -	\$7,722,000	(NHP)
			FY 2025 -	\$7,722,000	(NHP)
			FY 2026 -	\$7,722,000	(NHP)
			FY 2027 -	\$7,722,000	(NHP)
			POST YR-	\$38,610,000	(NHP)
				\$233,430,000	

**These items are for informational purposes only and subject to future NC Board of Transportation approval.**  
**It is anticipated that these items will be considered for NC Board of Transportation approval in 30 days.**

\* INDICATES FEDERAL AMENDMENT

REVISIONS TO THE 2016-2025 STIP  
HIGHWAY PROGRAM  
STIP MODIFICATIONS

**DIVISION 9**

* U-2579D	FUTURE I-74, WINSTON-SALEM NORTHERN BELTWAY,	RIGHT-OF-WAY	FY 2018 -	\$8,834,000	(T)
FORSYTH	EASTERN SECTION, US 311 TO SR 2211 (BAUX		FY 2019 -	\$8,833,000	(T)
PROJ.CATEGORY	MOUNTAIN ROAD)		FY 2020 -	\$8,833,000	(T)
STATEWIDE	<u>ACCELERATE RIGHT-OF-WAY FROM FY 19 TO FY 18</u>	UTILITIES	FY 2018 -	\$400,000	(T)
	<u>AND CONSTRUCTION FROM FY 22 TO FY 18; PROJECT</u>	CONSTRUCTION	FY 2018 -	\$3,600,000	(NHP)
	<u>TO BE LET USING DESIGN-BUILD DELIVERY AND</u>		FY 2018 -	\$4,000,000	(S(M))
	<u>GARVEE BOND FINANCING.</u>		FY 2019 -	\$3,600,000	(NHP)
			FY 2019 -	\$4,000,000	(S(M))
			FY 2020 -	\$3,600,000	(NHP)
			FY 2020 -	\$4,000,000	(S(M))
			FY 2021 -	\$3,600,000	(NHP)
			FY 2021 -	\$4,000,000	(S(M))
		GARVEE CONSTR	FY 2018 -	\$4,118,000	(NHP)
			FY 2019 -	\$4,118,000	(NHP)
			FY 2020 -	\$4,118,000	(NHP)
			FY 2021 -	\$4,118,000	(NHP)
			FY 2022 -	\$4,118,000	(NHP)
			FY 2023 -	\$4,118,000	(NHP)
			FY 2024 -	\$4,118,000	(NHP)
			FY 2025 -	\$4,118,000	(NHP)
			FY 2026 -	\$4,118,000	(NHP)
			FY 2027 -	\$4,118,000	(NHP)
			POST YR-	\$20,590,000	(NHP)
				\$119,070,000	

*These items are for informational purposes only and subject to future NC Board of Transportation approval.*  
*It is anticipated that these items will be considered for NC Board of Transportation approval in 30 days.*

\* INDICATES FEDERAL AMENDMENT

REVISIONS TO THE 2016-2025 STIP  
HIGHWAY PROGRAM  
STIP MODIFICATIONS

**DIVISION 9**

* U-2579E	FUTURE I-74, WINSTON-SALEM NORTHERN BELTWAY,	RIGHT-OF-WAY	FY 2018 -	\$11,184,000	(T)
FORSYTH	EASTERN SECTION, SR 2211 (BAUX MOUNTAIN ROAD)		FY 2019 -	\$11,183,000	(T)
PROJ.CATEGORY	TO NC 8		FY 2020 -	\$11,183,000	(T)
STATEWIDE	<u>ACCELERATE RIGHT-OF-WAY FROM FY 19 TO FY 18</u>	UTILITIES	FY 2018 -	\$360,000	(T)
	<u>AND CONSTRUCTION FROM FY 22 TO FY 18; PROJECT</u>	CONSTRUCTION	FY 2018 -	\$2,475,000	(NHP)
	<u>TO BE LET USING DESIGN-BUILD DELIVERY AND</u>		FY 2018 -	\$2,500,000	(S(M))
	<u>GARVEE BOND FINANCING.</u>		FY 2019 -	\$2,475,000	(NHP)
			FY 2019 -	\$2,500,000	(S(M))
			FY 2020 -	\$2,475,000	(NHP)
			FY 2020 -	\$2,500,000	(S(M))
			FY 2021 -	\$2,475,000	(NHP)
			FY 2021 -	\$2,500,000	(S(M))
		GARVEE CONSTR	FY 2018 -	\$2,574,000	(NHP)
			FY 2019 -	\$2,574,000	(NHP)
			FY 2020 -	\$2,574,000	(NHP)
			FY 2021 -	\$2,574,000	(NHP)
			FY 2022 -	\$2,574,000	(NHP)
			FY 2023 -	\$2,574,000	(NHP)
			FY 2024 -	\$2,574,000	(NHP)
			FY 2025 -	\$2,574,000	(NHP)
			FY 2026 -	\$2,574,000	(NHP)
			FY 2027 -	\$2,574,000	(NHP)
			POST YR-	\$12,870,000	(NHP)
				\$92,420,000	

*These items are for informational purposes only and subject to future NC Board of Transportation approval.*  
*It is anticipated that these items will be considered for NC Board of Transportation approval in 30 days.*

\* INDICATES FEDERAL AMENDMENT

REVISIONS TO THE 2016-2025 STIP  
HIGHWAY PROGRAM  
STIP MODIFICATIONS

**DIVISION 9**

* U-2579F	FUTURE I-74, WINSTON-SALEM NORTHERN BELTWAY, EASTERN SECTION, NC 8 TO EAST OF US 52	RIGHT-OF-WAY	FY 2018 - \$15,084,000 (T)
FORSYTH			FY 2019 - \$15,083,000 (T)
PROJ.CATEGORY	<u>ACCELERATE RIGHT-OF-WAY FROM FY 19 TO FY 18</u>		FY 2020 - \$15,083,000 (T)
STATEWIDE	<u>AND CONSTRUCTION FROM FY 22 TO FY 18; PROJECT TO BE LET USING DESIGN-BUILD DELIVERY AND GARVEE BOND FINANCING.</u>	UTILITIES	FY 2018 - \$440,000 (T)
		CONSTRUCTION	FY 2018 - \$1,800,000 (NHP)
			FY 2018 - \$2,000,000 (S(M))
			FY 2019 - \$1,800,000 (NHP)
			FY 2019 - \$2,000,000 (S(M))
			FY 2020 - \$1,800,000 (NHP)
			FY 2020 - \$2,000,000 (S(M))
			FY 2021 - \$1,800,000 (NHP)
			FY 2021 - \$2,000,000 (S(M))
		GARVEE CONSTR	FY 2018 - \$2,059,000 (NHP)
			FY 2019 - \$2,059,000 (NHP)
			FY 2020 - \$2,059,000 (NHP)
			FY 2021 - \$2,059,000 (NHP)
			FY 2022 - \$2,059,000 (NHP)
			FY 2023 - \$2,059,000 (NHP)
			FY 2024 - \$2,059,000 (NHP)
			FY 2025 - \$2,059,000 (NHP)
			FY 2026 - \$2,059,000 (NHP)
			FY 2027 - \$2,059,000 (NHP)
			POST YR- \$10,295,000 (NHP)
			\$91,775,000

**DIVISION 10**

* U-4714AA	SR 1009 (JOHN STREET-OLD MONROE ROAD), SR 3448- SR 3474 (TRADE STREET) TO I-485	RIGHT-OF-WAY	FY 2020 - \$4,850,000 (STBG)
MECKLENBURG			FY 2021 - \$4,850,000 (STBG)
PROJ.CATEGORY	<u>CREATE NEW BREAK BY SPLITTING U-4714A INTO U-4714AA AND U-4714AB.</u>	CONSTRUCTION	FY 2022 - \$3,850,000 (STBG)
DIVISION			FY 2023 - \$3,850,000 (STBG)
			\$17,400,000

* U-4714AB	SR 1009 (JOHN STREET-OLD MONROE ROAD), I-485.	RIGHT-OF-WAY	FY 2017 - \$1,000,000 (STBG)
MECKLENBURG	IMPROVE INTERCHANGE	CONSTRUCTION	FY 2017 - \$5,000,000 (STBG)
PROJ.CATEGORY	<u>CREATE NEW BREAK BY SPLITTING U-4714A INTO U-4714AA AND U-4714AB. ACCELERATE U-4714AB TO MATCH SCHEDULE OF I-5507 SO THAT PROJECTS CAN BE LET TOGETHER.</u>		FY 2018 - \$5,000,000 (STBG)
DIVISION			\$11,000,000

**These items are for informational purposes only and subject to future NC Board of Transportation approval.**  
**It is anticipated that these items will be considered for NC Board of Transportation approval in 30 days.**

\* INDICATES FEDERAL AMENDMENT

*These items are for informational purposes only and subject to future NC Board of Transportation approval. It is anticipated that these items will be considered for NC Board of Transportation approval in 30 days.*

**ADDITIONS to the Transit 2016-2025 STIP**

STIP #	Transit Partner	DESCRIPTION	match	FUND	FY16 (000)	FY17 (000)	FY18 (000)	FY19 (000)	FY20 (000)	FY21 (000)	FY22 (000)
TD-5280	Goldsboro Wayne Transportation Authority	Goldsboro Main Street Revitalization Through Transportation Investment II	TIGER DISC	TIGER DISC		5,000					
			Local	L		1,756					

Item I-1B, 1 Projects, Total Federal/State funds \$5,000,000



Board of Transportation November 30, 2016

*Product Evaluation Program Awareness*

Ben Johnson, PE



# *Product Highlight*

## *Solar Powered Pavement Marker*

- Utilizes a solar panel, capacitor, and computer chip for power
  - Charge time: 3 - 8 hours
  - Run time: 16+ hours
- Configurable and easy to install
- Used for roadway delineation and wrong-way driver alerts
- Currently being field tested
  - I-85, I-40, and NC 55 in Durham
  - Judd Pkwy / US 401 Intersection in Fuquay-Varina





# *Technology Highlight*

## *Roller-Compacted Concrete*

- Special blend of concrete that has same components but in different ratios
- Placed similar to asphalt pavement
- Constructed without joints and it doesn't need forms, dowel bars, or reinforcing steel
- Provides great durability of concrete with a speedier installation like asphalt
- Currently being field tested along the outside shoulders of I-85 near Greensboro in Division 7



# *Technology Highlight*

## *Roller Compacted Concrete*



# *Product Evaluation Outreach Opportunity*

## *The Quantum Group*

- Toured the Quantum Group facility on November 10<sup>th</sup> with Product Evaluation and Materials & Tests engineers.
- Discussed fiber manufacturing process and transportation related products produced using the fibers.
  - Artificial Turf
  - Geotextile Fabrics
- Followed up with the company to learn more about their products.

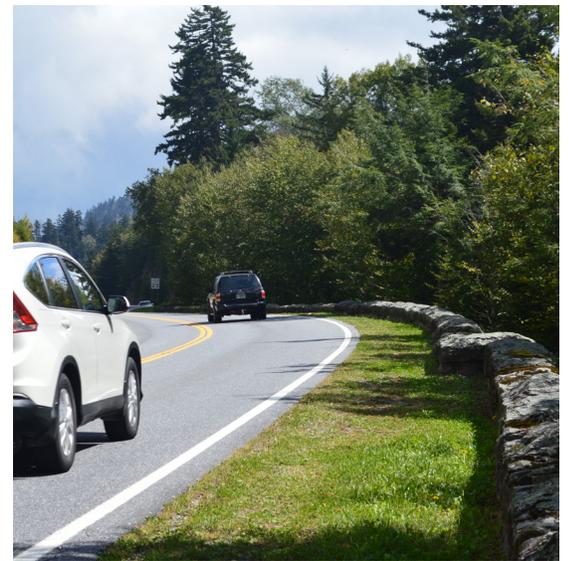


# North Carolina Scenic Byway Program

## Proposed Byway Name Change

### December, 2016 Board of Transportation Meeting

#### Roadside Environmental Unit



North Carolina's Scenic Byways highlight those exceptional and unique characteristics that make North Carolina a special place to be. See the communities, learn the history and get to know the people, while traveling from the high peaks of the Appalachian Mountains to the fertile plains of the Piedmont to the marshes and sounds of the Coastal Plains. Discover the heart and soul of the Tar Heel State on these less traveled routes.



# North Carolina Scenic Byway Program

## *Name Change Proposal*

### **Smoky Mountain Scenic Byway to Newfound Gap Road Scenic Byway**

Located entirely within the Great Smoky Mountains National Park is the Smoky Mountain Scenic Byway. It follows Newfound Gap Road, which is US 441, from the intersection at the Blue Ridge Parkway in Cherokee to the North Carolina/Tennessee state line at Newfound Gap. This byway was designated in April of 2009 before the National Park Service's 75th celebration. In 2009 Tennessee also designated Newfound Gap Road from the Tennessee side of Newfound Gap west to Gatlinburg as Newfound Gap Road Scenic Byway. Both these designations were at the request of the National Park Service and supported by the local gateway communities.



In hopes of getting the entire route from Cherokee to Gatlinburg designated as a National Scenic Byway, the National Park Service requested and received a grant from the National Scenic Byway Program to produce a Corridor Management Plan which is a requirement for national designation. This plan is scheduled to be completed in March of 2017.

The Smoky Mountain National Park is the most visited national park in the country. It is estimated that there were over 6.5 million visitors that traveled on Newfound Gap Road in 2015. Newfound Gap Road is entirely under the park's jurisdiction and maintenance and yet is also a designated US route.

**The National Park Service has formally requested that the Smoky Mountain Scenic Byway be renamed to Newfound Gap Road Scenic Byway. They believe that Newfound Gap Road is significant in light of the location of Newfound Gap at the North Carolina and Tennessee state line, and the official dedication of the Smoky Mountain National Park by President Franklin D. Roosevelt at this location in September of 1940. This name change would provide consistency to byway travelers and park visitors, reduce confusion with other scenic drives in the Smoky Mountains, and align the two byways for an easy transition into a National Scenic Byway. It would also allow for joint marketing between the National Park Service, North Carolina and Tennessee.**

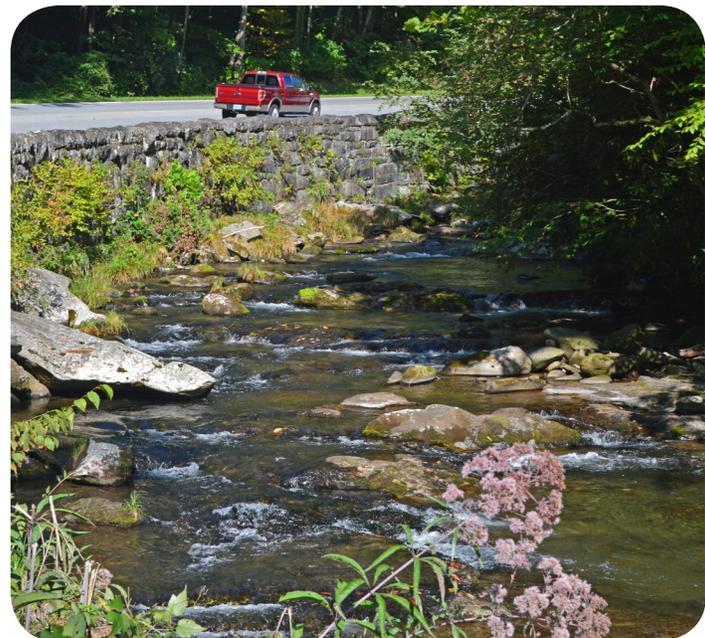
#### **CORRIDOR STATISTICS:**

Length: 16.5 Miles in North Carolina

County: Swain

Total Corridor Cherokee to Gatlinburg: 31 miles

**RECOMMENDATION:  
Change the name of the Smoky Mountain Scenic Byway to Newfound Gap Road Scenic Byway.**







Transportation

# JOINT COMMITTEE MEETING (FAST/EDIR) MEETING MINUTES

DATE: 11/2/2016 TIME: 2:40 LOCATION: 150

<b>MEETING CALLED BY</b>	EDIR Committee Chairman Terry Hutchens
<b>BOARD ATTENDEES</b>	BOT Chairman Ned Curran, FAST Committee Chairwoman Cheryl McQueary, FAST Vice Chairman Jim Crawford, EDIR Committee Chairman Terry Hutchens, Mr. David Brown, Ms. Tracy Dodson, Mr. Jack Debnam, Mr. Gus Tulloss, Mr. Jeff Sheehan, Mr. Lou Wetmore, Mr. Robby Collins, Mr. Andy Perkins, Mr. Patrick Molamphy, Mr. Jake Alexander, Ms. Sandra Fountain, Mr. Malcolm Fearing, Mr. David Tyeryar (staff), Mr. Sebastian Montagne (Staff)

## AGENDA TOPICS

<b>1. CTP 2.0 AND STIP MAPPING EFFORTS – DAVID WASSERMAN AND ALENA COOK</b>	
<b>DISCUSSION SUMMARY</b>	Presentation on the availability of the information on future NCDOT projects available to the public via NCDOT Connect and NCDOT.gov. Discussion centered around ways to get word out to the public about where they can find the information. Mr. Sheehan suggested working with the NC Real Estate Commission. Mr. Hutchens requested coordination assistance with the News & Observer as well.
<b>ACTIONS TAKEN</b>	Information only. No action taken.

<b>2. DAMAGE CLAIMS RECOVERY PROJECT UPDATE – DOUG COX</b>	
<b>DISCUSSION SUMMARY</b>	Presentation on the study conducted on claims recovery. Data collected in Divisions 2 and 5 from March to September. Average of 38 days to submit invoice, low percentage of unrecoverable damages. Study found large majority of damage is to guardrail/cable which is charged to specific WBS elements within divisions. Non-guardrail damage does not have a specific WBS which makes the frequency and financial impact harder to assess. Conclusion is less than 1% of damage to NCDOT facilities will be unrecoverable non-guardrail/cable damage.
<b>ACTIONS TAKEN</b>	Information only. No action taken.

Adjourned: 3:05



# ECONOMIC AND INTERGOVERNMENTAL RELATIONS COMMITTEE (EDIR) AGENDA

## BOARD OF TRANSPORTATION NOVEMBER 30, 2016

**TIME: 1:15 – 2:15**

**LOCATION: Room 150**

<b>TOPIC</b>	<b>PRESENTER</b>
Call to Order - Approval of November EDIR minutes	T. Hutchens, Chairman EDIR
Federally Funded Projects Selected by Entities other than the North Carolina Department of Transportation (NCDOT)	Van Argabright, Planning and Programming
Comments and Wrap Up	T. Hutchens, Chairman EDIR



Transportation

# JOINT COMMITTEE MEETING (FAST/EDIR) MEETING MINUTES

DATE: 11/2/2016 TIME: 2:40 LOCATION: 150

<b>MEETING CALLED BY</b>	EDIR Committee Chairman Terry Hutchens
<b>BOARD ATTENDEES</b>	BOT Chairman Ned Curran, FAST Committee Chairwoman Cheryl McQueary, FAST Vice Chairman Jim Crawford, EDIR Committee Chairman Terry Hutchens, Mr. David Brown, Ms. Tracy Dodson, Mr. Jack Debnam, Mr. Gus Tulloss, Mr. Jeff Sheehan, Mr. Lou Wetmore, Mr. Robby Collins, Mr. Andy Perkins, Mr. Patrick Molamphy, Mr. Jake Alexander, Ms. Sandra Fountain, Mr. Malcolm Fearing, Mr. David Tyeryar (staff), Mr. Sebastian Montagne (Staff)

## AGENDA TOPICS

<b>1. CTP 2.0 AND STIP MAPPING EFFORTS – DAVID WASSERMAN AND ALENA COOK</b>	
<b>DISCUSSION SUMMARY</b>	Presentation on the availability of the information on future NCDOT projects available to the public via NCDOT Connect and NCDOT.gov. Discussion centered around ways to get word out to the public about where they can find the information. Mr. Sheehan suggested working with the NC Real Estate Commission. Mr. Hutchens requested coordination assistance with the News & Observer as well.
<b>ACTIONS TAKEN</b>	Information only. No action taken.

<b>2. DAMAGE CLAIMS RECOVERY PROJECT UPDATE – DOUG COX</b>	
<b>DISCUSSION SUMMARY</b>	Presentation on the study conducted on claims recovery. Data collected in Divisions 2 and 5 from March to September. Average of 38 days to submit invoice, low percentage of unrecoverable damages. Study found large majority of damage is to guardrail/cable which is charged to specific WBS elements within divisions. Non-guardrail damage does not have a specific WBS which makes the frequency and financial impact harder to assess. Conclusion is less than 1% of damage to NCDOT facilities will be unrecoverable non-guardrail/cable damage.
<b>ACTIONS TAKEN</b>	Information only. No action taken.

Adjourned: 3:05



# FUNDING & APPROPRIATION STRATEGIES COMMITTEE (FAST) AGENDA

## BOARD OF TRANSPORTATION NOVEMBER 30, 2016

TIME: 1:15 – 2:15 p.m.

LOCATION: Room EIC

TOPIC	PRESENTER
Call to Order - Approval of October and November EDIR/FAST minutes	C. McQueary, Chairwoman FAST
SAS Update	Leila Yahyapour, Eric Leblanc
Comments and Wrap Up	C. McQueary, Chairwoman FAST



# HIGHWAYS COMMITTEE MEETING MINUTES

DATE: 11-02-2016 TIME: 10:30 AM – 12:00 PM LOCATION: 150

MEETING CALLED BY	Jake Alexander
BOARD ATTENDEES	Committee: Blount, Brown, Crawford, Debnam, Overholt, Palermo

## AGENDA TOPICS

1. APPROVAL OF OCTOBER MINUTES	
DISCUSSION SUMMARY	Motion to approve made by Board Member Brown, seconded by Board Member Blount.
ACTIONS TAKEN	Motion to approve minutes as written passed unanimously.

2. PIEDMONT IMPROVEMENT PROGRAM – MARK FREEMAN, PE	
DISCUSSION SUMMARY	<p>The Piedmont Improvement Program (PIP) is primarily a rail project funded through a \$520M ARRA grant to add capacity and increase safety to our rail system in the Piedmont area. In this unique delivery method NCDOT managed all the highway and railroad roadbed construction. The PIP project includes 12 new roadway grade separations, 27 miles of second main track and 12 miles of roadway construction. Additionally, it includes the closure of 39 at-grade crossings, 5 new universal crossover control points, 5 miles of passing sidings, 5 railroad bridge improvements and curve improvements to allow future speeds of up to 110 mph. The Division of Highways staff is an integral part of project delivery. They've been able to utilize existing network of Resident Engineer field offices and have delegated authority for permit oversight. Additionally, this project has provided opportunities to a wide range of contractors and private engineering firms helping boost NC's economy. Some of the recent and upcoming grade separations being completed include Morrisville Parkway, Hopson Road, McLeansville Road, Klumac road, Upper Lake and Turner Road, Peeler and Kimball Road and Pharr Mill, Roberta, Grier and Caldwell Roads. Delivering the PIP has been a significant challenge due to the large scope of work, multiple stakeholders and contracts, access issues, and the fixed funding schedule. The extreme challenge was worth the effort, as the result is a safe, high capacity and modern infrastructure connecting the key population centers of North Carolina for both freight, passengers and motorists. The ARRA grant funding has a sunset date of September 30, 2017 and the Department is on schedule to meet that deadline.</p>
ACTIONS TAKEN	



# HIGHWAYS COMMITTEE MEETING MINUTES

<b>3. TRUCK RESTRICTIONS IN NORTH CAROLINA – KEVIN LACY, PE</b>	
<b>DISCUSSION SUMMARY</b>	<p>The Department received quite a few requests for truck restrictions typically from citizens concerned about large trucks on their neighborhood roads. Some municipalities request to restrict trucks in central business districts. These requests are submitted due to physical and operation constraints such as narrow roads or structural capacity. The State's highway system is constructed and maintained with public dollars and therefore restrictions are regulated through state and federal laws. The Surface Transportation Assistance Act (STAA) of 1982 created the National Truck Network and limited the states abilities to restrict trucks on this network. The National Truck Network (NTN) included all Interstate Highways and any other highway that the state added through the process established. The states could not restrict access to the National Truck Network and had to allow reasonable access to and from the NTN. That distance of reasonable access could not be less than one mile. (North Carolina allows 3 miles.) While there are several STAA dimensioned vehicles, the primary vehicles of concern are the twin trailers. In the past, these allowances also covered 53' trailers and 48' long and 102" wide tractor trailers. The legal length trailer in North Carolina as of 2008 is 53' and 102" wide. These trailers are allowed on all roads except for the roadways that have specific restrictions. Twin trailers are 28½' in length each and are allowed only on the roadways where they have been specifically allowed. They are also allowed up to 3 miles from all North Carolina Truck Network Routes (Red Lines) for purposes such as food, services, deliveries, etc. There are several laws that permit the NCDOT to restrict trucks on state maintained roadways covering the powers of the Department, light traffic roads, designated truck routes with a restricted route and allowance of NCDOT restricting vehicle combinations. The laws can be complicated and difficult to understand. Therefore, any questions or requests relative to truck restrictions or reasonable access should be directed to NCDOT's State Traffic Engineer.</p>
<b>ACTIONS TAKEN</b>	



# HIGHWAYS COMMITTEE MEETING MINUTES

4. HIGH FRICTION SURFACE TREATMENTS – TONY WYATT, PE, PTOE & NILESH SURTI, PE	
DISCUSSION SUMMARY	<p>High Friction Surface Treatments (HFST) are pavement overlay systems with exceptional skid resistance not typically provided by conventional paving materials. They involve applying durable aggregates with a polymer binder to provide motorists with better traction at high-crash locations, such as curves, ramps, intersection approaches, and upgrades and downgrades. NC was one of the original 8 pilot FHWA Surface Enhancements at Horizontal Curves States in 2008. Two sites were originally piloted and due to complications one of the sites was removed and installation efforts were suspended. Under FHWA's Every Day Counts innovation program in 2013, NC reactivated its efforts and established an HFST work team. This team consisted of various NCDOT units and FHWA representatives and Industry and other State DOT partners to develop specifications, determine candidate sites and provide guidance to NCDOT's Divisions. Specifications were developed and a technical bulletin was sent out to stakeholders with guidance. HFST is a specialized type of work and as such, contracts are stand alone for a small community of prequalified experienced contractors. There have been a few small contracts (typically \$250k or less) let for HFST to be applied to horizontal curves with safety concerns. The goal is to utilize HFST to provide improved safety to the traveling public, reduce accidents and increase friction for vehicles. Installations have gone well so far. The Department will be monitoring post construction crash data to see how it's helping, continuing to assess in service durability and will continue identifying future candidate HFST test sites.</p>
ACTIONS TAKEN	



# HIGHWAYS COMMITTEE AGENDA

## BOARD OF TRANSPORTATION NOVEMBER 30, 2016

TIME: 10:30 AM – 12:00 PM

LOCATION: 150

TOPIC	PRESENTER	TIME
Salem Creek Connector	Pat Ivey, PE	20 min
Bridge Inspections	Gichuru Muchane, PE	20 min
Online Encroachment Submittals on Connect NCDOT	Doug Cox Patrick Doran	20 min
Other Discussion	Jake Alexander	30 min



Board of Transportation Highways Committee  
November 30, 2016

*Bridge Inspections*

Gichuru Muchane, PE  
Assistant State Structures Engineer - Inspections



# *Structure Inspections - Outline*

## **Inspections**

- Inventory of 18,400 structures
- 24 month inspection cycle (NBIS)
- >10,700 inspection per year
- Inspection Types

## **Unmanned Aerial Systems (Drones)**

- NCSU/ITRE Project

## **Hurricane Matthew**

- Post Hurricane Structure Assessments



# Structure Inspections 2015

## Top Side Inspections

(16 NCDOT Teams  
57 PEF Teams)

**9574** Routine Safety  
Inspections

Supplemental  
Inspections

Emergency  
Response



# Structure Inspections 2015

## Special Inspections

(2 Teams)

**27** Damage Inspections

**7** Machinery Inspections

**380** Sign & HMLT Inspections

Bridge Impact Response



# Structure Inspections 2015

## Underwater Inspections

(4 Teams)

**637** Underwater Inspections

Assistance with Underwater Construction Inspection

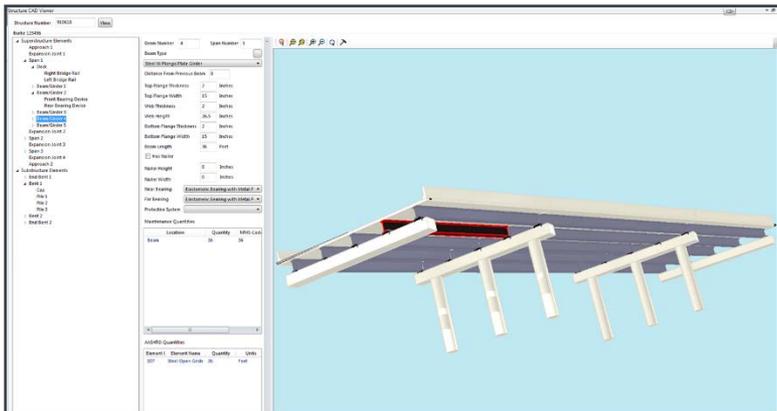


Emergency Response

# Structure Inspections - Initiatives

## Wearable Inspection & Grading Information Network System

- Element Level Inspection (2014)
- MAP 21 Mandate
- 2<sup>nd</sup> Cycle



## *Structure Inspections - Initiatives*

- Significant increase in PEF Usage
- Element Inspection Reports
  - Inform Divisions in greater detail.
  - Structures Mgmt. -- Assist Divisions with Engineered Repair Details.
  - Basis for customized Bridge Work Plans (Asset Mgmt. Plan).
- Inspection Device Upgrades
- Phase out non-Element Inspection System

# *Structure Inspections - UAS*



# Structure Inspections - UAS

Institute for Transportation Research and Education – N.C. State University



## Unmanned Aircraft Systems: A New Tool for DOT Inspections



<http://www.itre.ncsu.edu>

1



# Structure Inspections - UAS

## Project Goals



- Evaluate feasibility of UAS as a DOT resource
- Evaluate technical requirements for integrating UAS into NCDOT missions
- Conduct a series of UAS flight test operations for multiple applications in various environments
- Assess image quality of products

# Structure Inspections – UAS

## Conclusions



- UAS can support NCDOT missions. Imagery requirements should be specified ahead of time as part of mission planning and expectation management.
- **Part 107 has made UAS flight operations significantly more routine.**
- Proper training is essential to efficient, effective operations.
- System cost does not equate to improved operational performance
- Weather, wind, and precipitation limit the utility
- Batteries are a limiting factor for electric UAS.
- Reliability of aircraft is still maturing. (*not just us*)

# Structure Inspections – UAS

---

## Lessons Learned

---



- Use a sensor that is already fully integrated.
- Standard Operating Procedures should be established before beginning flight operations and strictly followed.
- 24" GCP marker with matte paint finish provided the best accuracy for determining the exact georeferenced coordinate.
- Water presents unique challenges with image processing.
- Need experienced team to support flight operations, data processing, and analysis.

# *Structure Inspections – Hurricane Matthew*

- Post-Hurricane Assessments
- Resource for Divisions and Municipalities
- Divisions 1-4 & 6
- Bridge Approach Washouts
- Excessive Scour
- Pipe Culvert Washouts
- Repairs to undermined culvert on I-95



# *Structure Inspections – Hurricane Matthew*



*Questions?*





Board of Transportation Highways Committee

November 30, 2016

*Online Encroachment Submittals on  
Connect NCDOT*

Doug Cox, Governance Office

Patrick Doran, IT



# *Lean Six Sigma Data Analysis*

*Doug Cox*



# *Encroachment Cycle Time Analysis*

## *Objective:*

- *Determine length of the process (submittal to approval)*
- *Understand characteristics of encroachment submittals*
  - *Method used to submit applications*
  - *Form used*
  - *Number of revisions required to approval*
  - *Reasons of revisions*



# *Methodology*

- *Data collection occurred between mid-August and early September*
- *Four of NCDOT's 14 highway divisions*
- *Three districts within each of the 4 divisions*
- *Randomly selected +/- 300 encroachment applications per division; +/- 100 applications per district*
- *Examined data from 2013-14, 2014-15, 2015-16*



# *Baseline Cycle Time Data*

## Cycle Time (days)

	TOTAL ENCROACHMENTS	DIVISION 2	DIVISION 5	DIVISION 8	DIVISION 12
SAMPLE POOL*	8,634	1,122	4,824	1,350	1,338
SAMPLE SIZE*	1,296	300	347	347	302
AVERAGE	20.6	24.2	24.2	15.0	19.1
ST. DEV.	38.3	28.8	46.4	28.3	44.8

\* 3 years (2013-14, 2014-15, 2015-16)



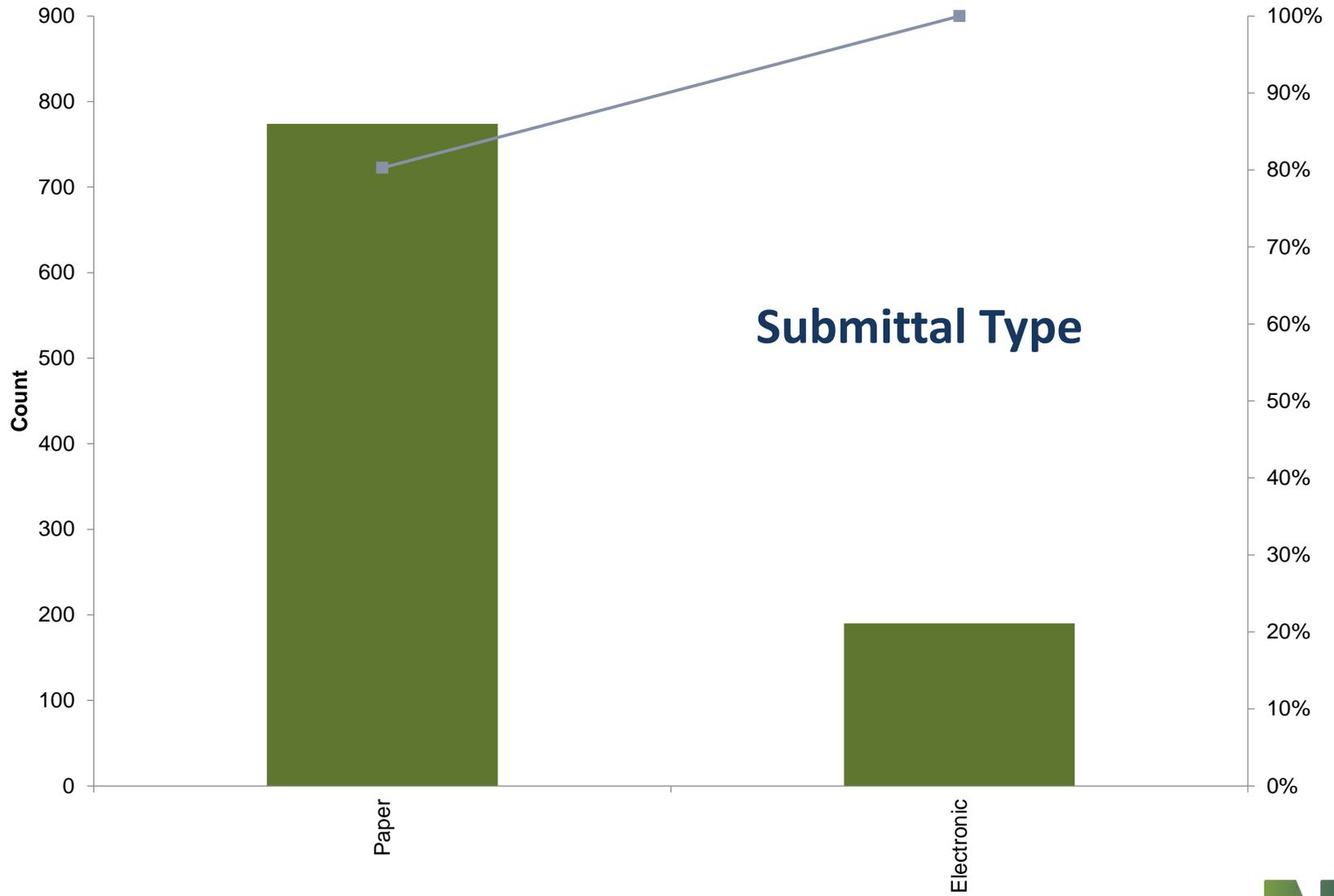
# Baseline Cycle Time Data *(continued)*

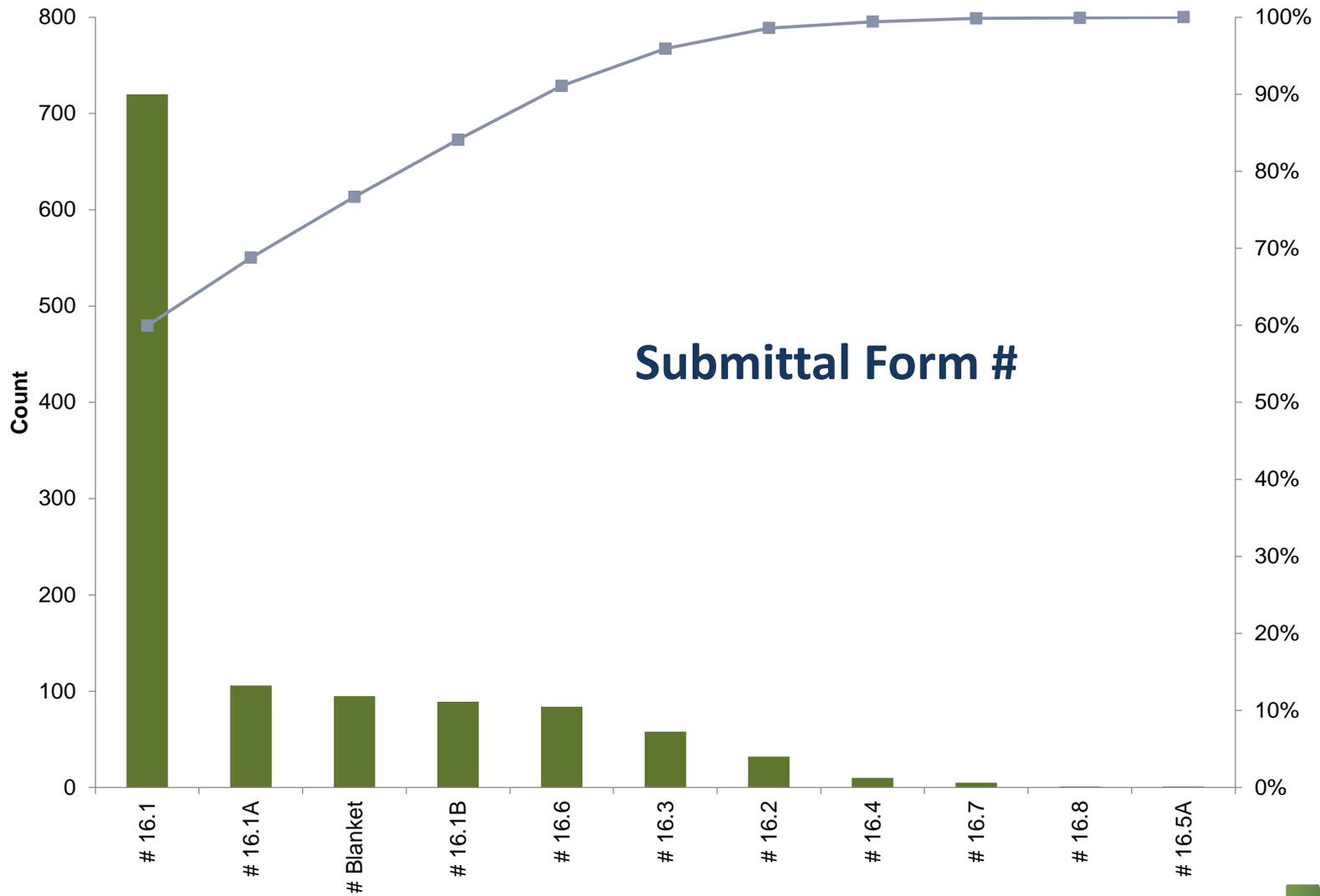
## Cycle Time (days) *by division and district*

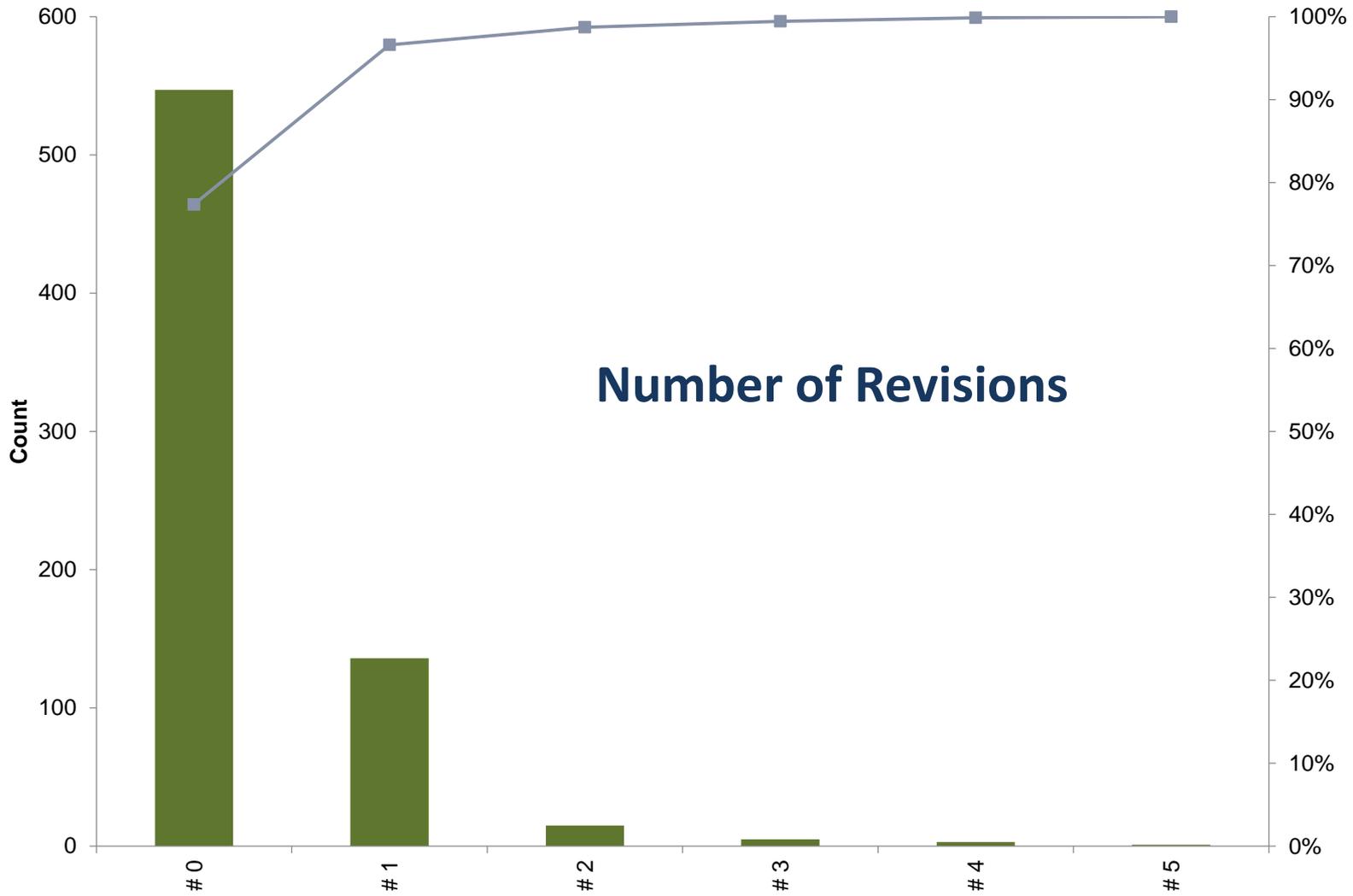
	DIV. 2 DIST. 1	DIV. 2 DIST. 2	DIV. 2 DIST. 3	DIV. 5 DIST. 1	DIV. 5 DIST. 2	DIV. 5 DIST. 3
SAMPLE POOL*	723	243	156	3,620	960	244
SAMPLE SIZE*	105	93	102	146	69	132
AVERAGE	27.3	22.8	22.4	25.3	45.0	12.3
ST. DEV.	24.7	38.7	21.5	42.4	71.6	25.8
	DIV. 8 DIST. 1	DIV. 8 DIST. 2	DIV. 8 DIST. 3	DIV. 12 DIST. 1	DIV. 12 DIST. 2	DIV. 12 DIST. 3
SAMPLE POOL*	450	450	450	465	366	507
SAMPLE SIZE*	99	102	146	105	98	99
AVERAGE	16.3	19.1	11.4	16.9	8.2	32.3
ST. DEV.	34.2	34.6	16.3	45.2	6.2	60.5

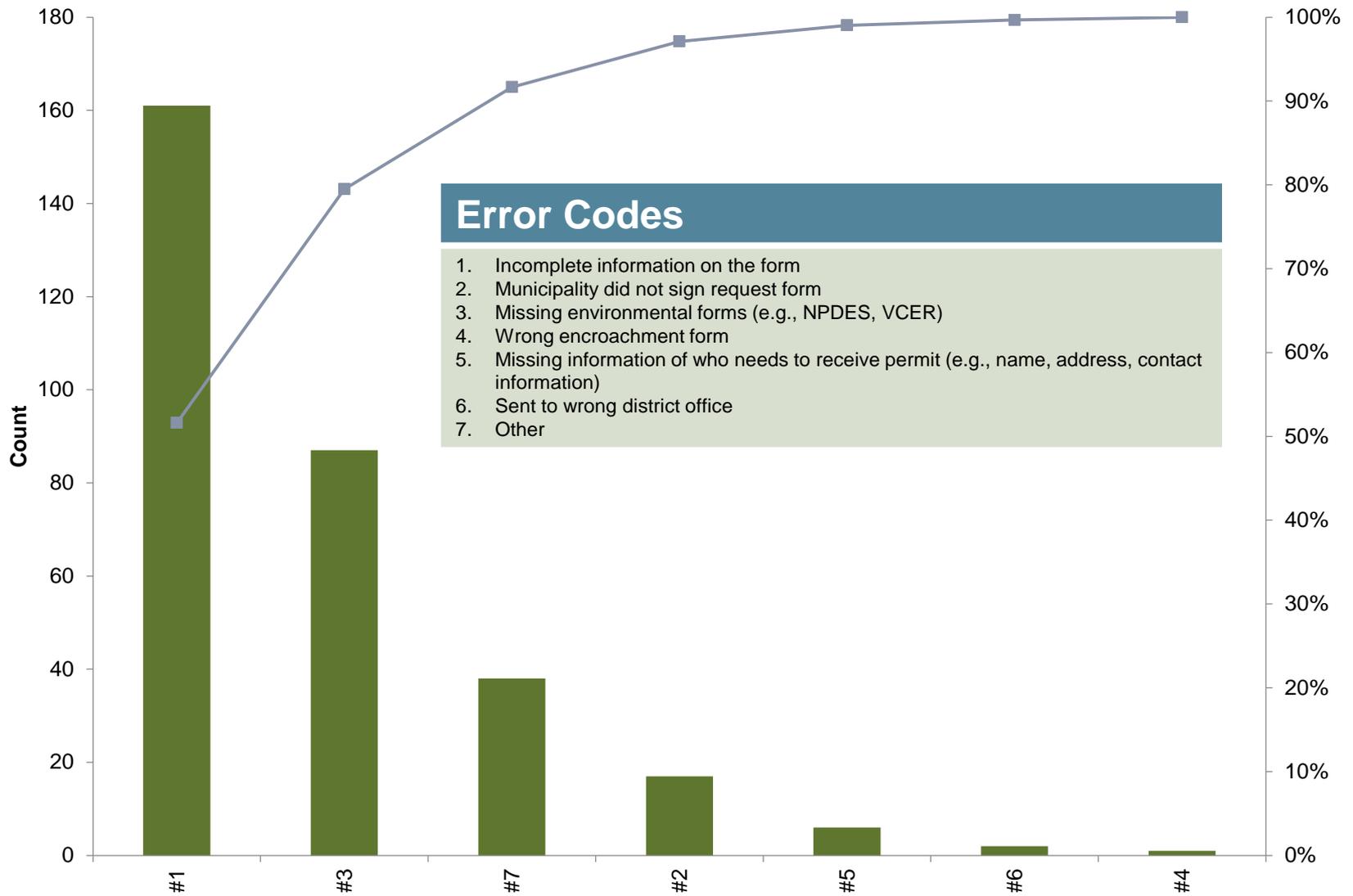
\* 3 years (2013-14, 2014-15, 2015-16)











# Revision Cycles

## Cycle Time (days) *per revision cycle*

	1 REVISION	2 REVISIONS	3 REVISIONS	4 REVISIONS	5 REVISIONS	RALEIGH REVISIONS
% OCCURRENCE	67%	11%	4%	1%	.5%	17%
COUNT	132	21	8	3	1	33
AVERAGE (days)	29.7	57.8	19.3	24.3	2.0	82.3
ST. DEV. (days)	39.1	110.2	24.0	22.2	-	130.5



# *Days of Possession*

	NCDOT DAYS	UTILITY / OTHER DAYS
1 REVISION	923	3,926
2 REVISIONS	224	1,213
3 REVISIONS	142	154
4 REVISIONS	29	73
5 REVISIONS	0	2
RALEIGH REVIEW	2,828	0
DIVISION REVIEW	2,303	0
<b>TOTAL DAYS</b>	<b>6,449</b>	<b>5,368</b>
	<b>55%</b>	<b>45%</b>



# *IT Interim Solution and Future Phases*

*Patrick Doran*



# Online Encroachment Submission: Goals

- Decrease turnaround time between submission, internal review, & vendor corrections for Utility Encroachments
- Reduce paper & Email in process
- Fast, collaborative review across teams (Submitter, Utilities, central offices, etc)
- Deliver solution quickly on proven tech - on the site our partners are already using - Connect NCDOT <https://connect.ncdot.gov>

ROUTE \_\_\_\_\_ STATE PROJECT \_\_\_\_\_ FEDERAL PROJECT \_\_\_\_\_ STATE OF NORTH CAROLINA \_\_\_\_\_  
DEPARTMENT OF TRANSPORTATION \_\_\_\_\_ COUNTY \_\_\_\_\_  
-AND- \_\_\_\_\_

RIGHT OF WAY  
**ENCROACHMENT AGREEMENT**  
INTERSTATE AND OTHER CONTROLLED  
ACCESS HIGHWAYS

THIS AGREEMENT, made and entered into this the \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_, by and between the Department of Transportation, party of the first part, and \_\_\_\_\_ party of the second part,

WITNESSETH

THAT WHEREAS, the party of the second part desires to encroach on the right of way of the public road designated as Route(s) \_\_\_\_\_, located \_\_\_\_\_ with the construction and/or erection of: \_\_\_\_\_

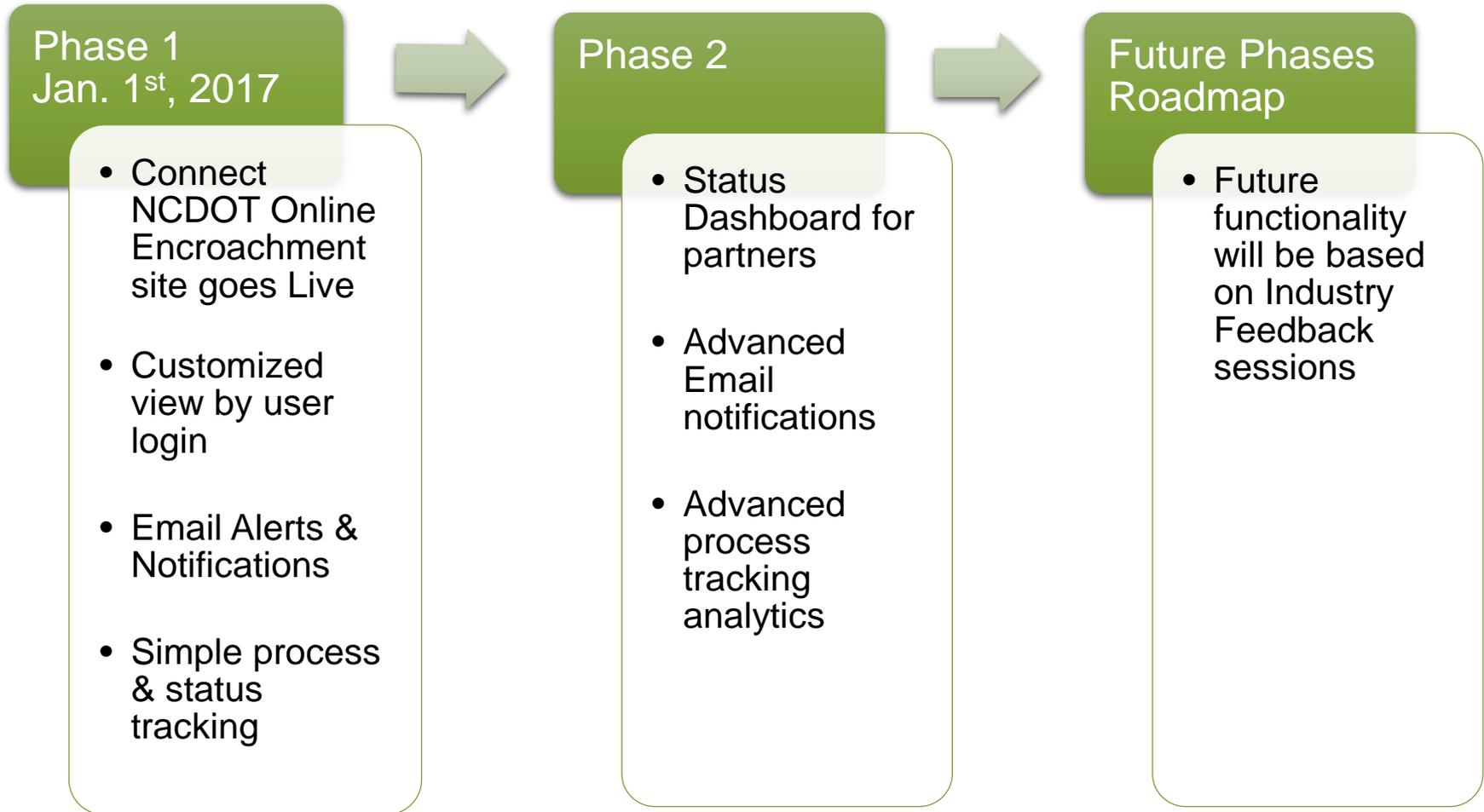
WHEREAS, it is to the material advantage of the party of the second part to effect this encroachment, and the party of the first part in the exercise of authority conferred upon it by statute, is willing to permit the encroachment within the limits of the right of way as indicated, subject to the conditions of this agreement;

NOW, THEREFORE, IT IS AGREED that the party of the first part hereby grants to the party of the second part the right and privilege to make this encroachment as shown on attached plan sheet(s), specifications and special provisions which are made a part hereof upon the following conditions, to wit:

That the installation, operation, and maintenance of the above described facility will be accomplished in accordance with the party of the first part's latest **POLICIES AND PROCEDURES FOR ACCOMMODATING UTILITIES ON HIGHWAY RIGHTS-OF-WAY**, and such revisions and amendments thereto as may be in effect at the date of this agreement. Information as to these policies and procedures may be obtained from the Division Engineer or State Utility Agent of the party of the first part.

That the said party of the second part hereby agrees that access for servicing its facilities will be limited to access via (a) frontage roads where provided, (b) nearby or adjacent public roads and street, or (c) trails along or near the highway right of way lines, connecting only to an intersecting road; from any one or all of which entry may be made to the outer portion of the highway right of way. The party of the second part's rights of access to the through-traffic roadways and ramps shall be subject to the same rules and regulations as apply to the general public, except if an emergency situation occurs, and the usual means of access for service operation as herein provided will not permit the immediate action required by the party of the second part in making emergency repairs as required for the safety and welfare of the public, the party of the second part shall have a temporary right of access to and from the through-traffic roadways and ramps, provided that the party of the second part shall be responsible for emergency repairs, provided that the party of the second part shall be responsible for the safety and welfare of the public, the party of the second part for policing and control to protect the

## Online Encroachment Submission: Phases



# Online Encroachment Submission: Interface

## Login for submitters



Secure access from any browser/mobile device

Existing business partner website, log in from homepage:  
<https://connect.ncdot.gov>

Or Encroachments page:  
<https://connect.ncdot.gov/municipalities/Utilities>

Connect NCDOT  
BUSINESS PARTNER RESOURCES

Home Help Team Sites Site Map

Doing Business Bidding & Letting Projects Resources **Local Governments** Search...

Bridge Reuse Interagency Leadership Local Projects Planning School Transportation State Airport Aid State Street-Aid **Utilities**

### Encroachment Agreements for Utilities

Overview, Explanation of Forms, Bonding

Connect NCDOT > Local Governments > Utilities > Encroachment Agreements for Utilities

#### Overview of Encroachment Process

**Under Development**

Listing of the most critical special provisions.

Until they are published, please direct related questions to:

Byron Sanders, PE  
919-707-6696  
[encl@ncdot.gov](mailto:encl@ncdot.gov)

#### Encroachment Agreements

When construction or utility installation requires an encroachment agreement is required along with descriptions of when and

#### Performance and Indemnity

Performance and indemnity bonds are required for all encroachment agreements for utilities.

#### Online Submissions

Use our online tool to submit and track the status of Utility Encroachments with NCDOT.

Log On

Get Access

Directory for Utilities Unit.

Authentication Required  
connect.ncdot.gov

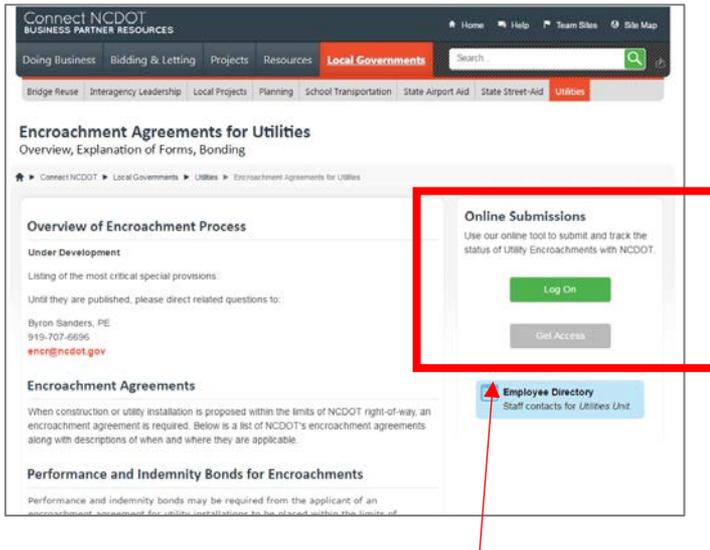
jsmith

.....

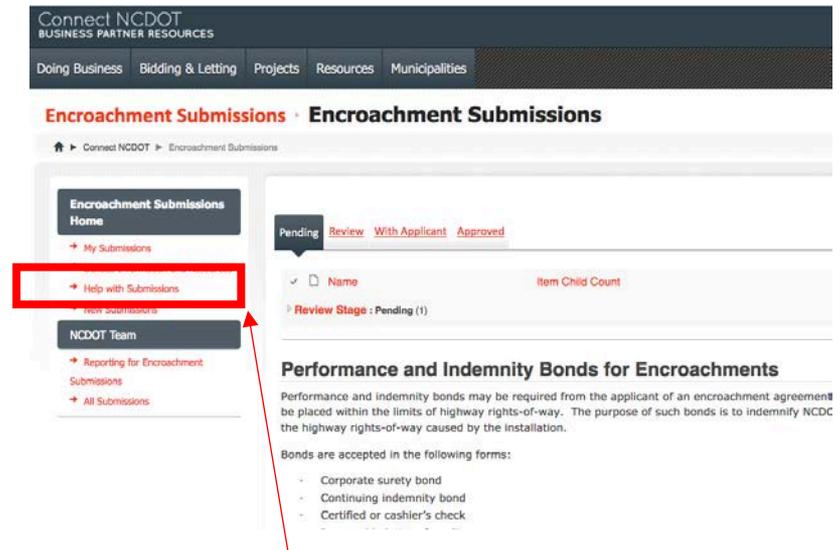
Cancel Log In



## Online Encroachment Submission: Help



Available before login (for new users)...



... and when signed in.

- Video and step-by-step guides for new users.
- Includes help on configuring Email notifications



# Online Encroachment Submission: Interface

## Dashboard



Dashboard shows user the status of all submissions they've put in the system

Easy access to creating a new Encroachment submissions

Searchable, sortable, always available

Works on mobile, tablet, & desktop

The screenshot displays the 'Permits > Encroachment Submissions' page on the Connect NCDOT website. The page title is 'Online Encroachment Submissions on Connect NCDOT'. It features a navigation menu with 'Doing Business', 'Bidding & Letting', 'Projects', 'Resources', and 'Municipalities'. A search bar is located in the top right corner. The main content area includes a 'Utility' and 'Encroachments' sidebar, an 'Online Encroachment Submission Process' section with contact information for Byron Sanders, PE, and a 'Submit new encroachment' button. Below this is a 'My In-Progress Encroachment Submissions' table with columns for Name, Modified, Comments, and County. The table lists several entries, including 'Entry 2', 'Entry 1', 'Application 2', and 'submission 1'. A mobile phone is overlaid on the bottom left, showing the same interface on a smaller screen.

Name	Modified	Comments	County
Status: In-Progress (3)			
Entry 2	...	A few seconds ago	This is a test comment. From testing. Wake
Entry 1	...	A few seconds ago	This is a test comment. From testing. Wake
Application 2	...	A few seconds ago	This is a test comment. From testing. Wake
Status: New (5)			
Entry 3	...	A few seconds ago	This is a test comment. From testing. Wake
Entry 4	...	A few seconds ago	This is a test comment. From testing. Wake
submission 1	...	A few seconds ago	This is a test comment. From testing. Johnston
Test	...	A few seconds ago	This is a test comment. From testing. Wake



# Online Encroachment Submission: New Submission

## Submitting new

Required fields ensure all information is collected up front, reducing turnaround time

Supports uploading multiple documents

DOT Personnel receive email alert upon submission

Submission date/time tracked and saved

The screenshot displays the 'New Encroachment Submission' page on the Connect NCDOT Business Partner Resources website. The page features a dark header with the site name and navigation tabs for 'Doing Business', 'Bidding & Letting', 'Projects', 'Resources', and 'Municipalities'. A search bar is located in the top right corner. The main content area is titled 'Encroachment Submissions > New Encroachment Submission' and includes a breadcrumb trail: 'Connect NCDOT > Encroachment Submissions > New Encroachment Submission'. On the left, there is a sidebar with a 'New Submissions' link highlighted. The main form area contains several fields: 'County' (Wake), 'Agreement' (16.1 - Two-Party, Utility, Primary and Secondary Highwa...), 'Applicant' (Applicant Name), 'Third Party' (Third Party Name), 'Route' (SR-1234), 'Location' (Main Street), and 'Contact Person' (Patrick M. Doran). A 'Division 14 Contact Directory' icon is also visible. On the right side, there is a 'My Submissions' table listing previous submissions with details like district, name, and ID.

✓	Name
	2-District 2-Bladen- 1478543697722
	2-District 2-Bladen- 1478543673945
	1-District 1-Alleghany- 1478229469223

# Online Encroachment Submission: Tracking

## Analytics

All submissions tracked for # of days spent at each step:

- New
- Under Review
- Revisions
- Approval

NCDOT staff can quickly take action on any encroachment submission that's taking too long to complete.



## Encroachment Submissions ▶ Encroachment Submission Duration Tracking

Connect NCDOT ▶ Encroachment Submissions

**Encroachment Submissions Home**

- My Submissions
- Utilities Information and Resources
- New Submissions

**NCDOT Team**

- Reporting for Encroachment Submissions
- All Submissions

**+ new item**

All Items Div 1 Div 10 ... Find an item 🔍

Submission	Title	Modified By DOT	Division	District	County	Days
▶ Division : 1 (2)						
1-District 1-Alleghany-1478014124899	Pending	Ernesto Spirito	1	District 1	Alleghany	1
1-District 1-Alleghany-1478229469223	Pending	Patrick M. Doran	1	District 1	Alleghany	4
▶ Division : 14 (1)						
14-District 14-Wake-1478553479622	Pending	Ernesto Spirito	14	District 14	Wake	2
▶ Division : 2 (3)						
2-District 2-Bertie-1477944826744	Pending	Ernesto Spirito	2	District 2	Bertie	4
2-District 2-Bertie-1477944826744	Closed Out	Ernesto Spirito	2	District 2	Bertie	3
2-District 2-Bertie-1478033921956	Pending	Ernesto Spirito	2	District 2	Bertie	2

# Online Encroachment Submission: Email Summary

## Email Notifications



Capability for Daily summary, Weekly summary, or real-time email notifications on encroachment submissions

Keeps NCDOT and submitters informed when status changes, or when a submission has been sitting too long

Users can set their own emailing preference

A screenshot of an email client window. The window title is "MESSAGE". The ribbon includes "FILE" and "MESSAGE" tabs. The "MESSAGE" ribbon has several groups of icons: "Delete" (trash can), "Respond" (Reply, Reply All, Forward), "Quick Steps" (Complete, SP Logs, Create New), "Move" (Move, Move), "Tags" (Mark Unread, Categorize, Follow Up), and "Editing" (Editing, Zoom). The email content shows the following details:  
**From:** Encroachments at NCDOT <SharePointAdmin@ncdot.gov>  
**Sent:** Tuesday, May 10, 2016 8:00 AM  
**To:** Doran, Patrick M  
**Subject:** Encroachments: Daily overdue summary  
  
[Encroachments at NCDOT](#)  
**Encroachments - 5+ days overdue - Daily Summary**  
[Modify my alert settings](#) | [View Encroachments](#) | [Mobile View](#)  
  
The email body contains a table with 7 rows, each representing an overdue encroachment. Each row has three columns: a blue hyperlink for the location name, the time since the submission was made, and the user name.

<a href="#">Location name</a>	4 days ago	testuser
<a href="#">Location name</a>	4 days ago	testuser
<a href="#">Location name</a>	4 days ago	testuser
<a href="#">Location name</a>	4 days ago	testuser
<a href="#">Location name</a>	4 days ago	testuser
<a href="#">Location name</a>	4 days ago	testuser
<a href="#">Location name</a>	4 days ago	testuser

Parking Status      Waiting List

*Questions?*





Board of Transportation Highways Committee  
November 30, 2016

*Salem Creek Connector*

Pat Ivey, Division 9 Engineer



# *Salem Creek Connector (U-2925)*

## *Martin Luther King Jr., Drive to Rams Drive*

1.1 miles

Began December 2012  
(Design-Build)

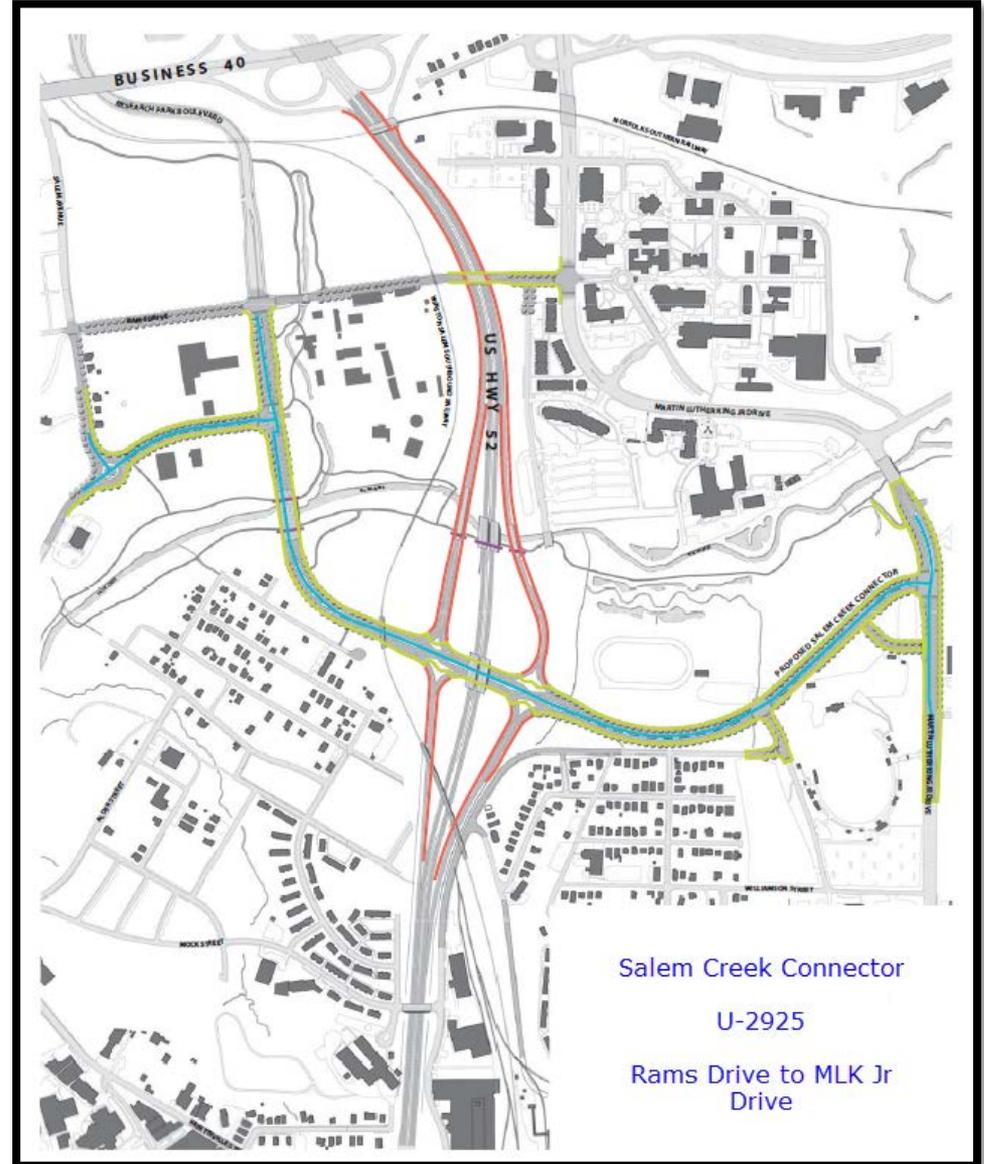
\$ 80,984,127

Additional work

Blythe Construction Co

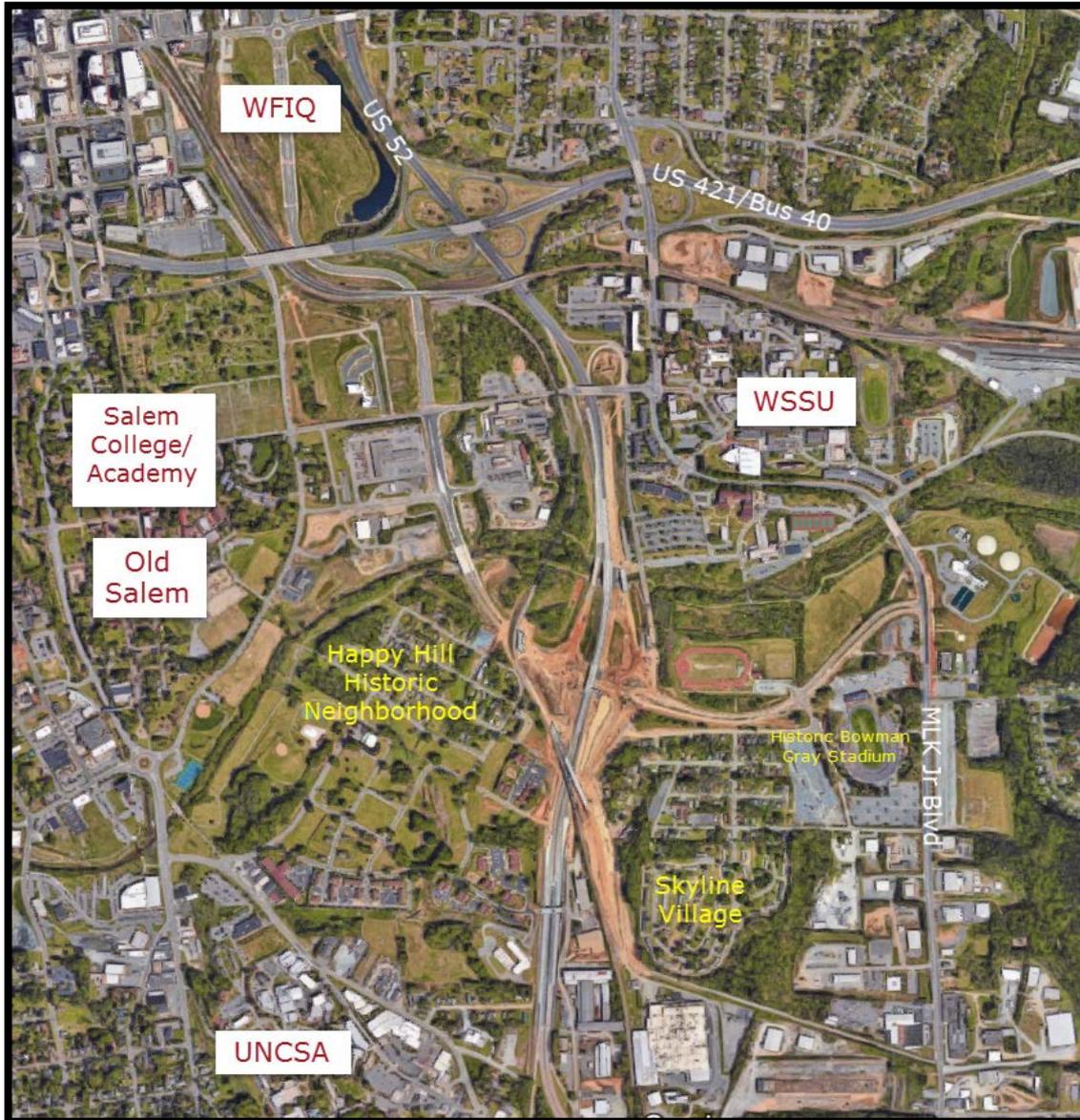
89% complete

Completion date:  
Summer 2017



# *Salem Creek Connector (U-2925)*

## *Martin Luther King Jr., Drive to Rams Drive*



Access to WFIQ

Access to WSSU, Old Salem, Salem Academy/College, UNCSA

Remove thru-traffic from WSSU central campus – enhance pedestrian safety

Allows ramps to be removed from Ram's Drive interchange

Detour traffic during Business 40 closure

Community Involvement



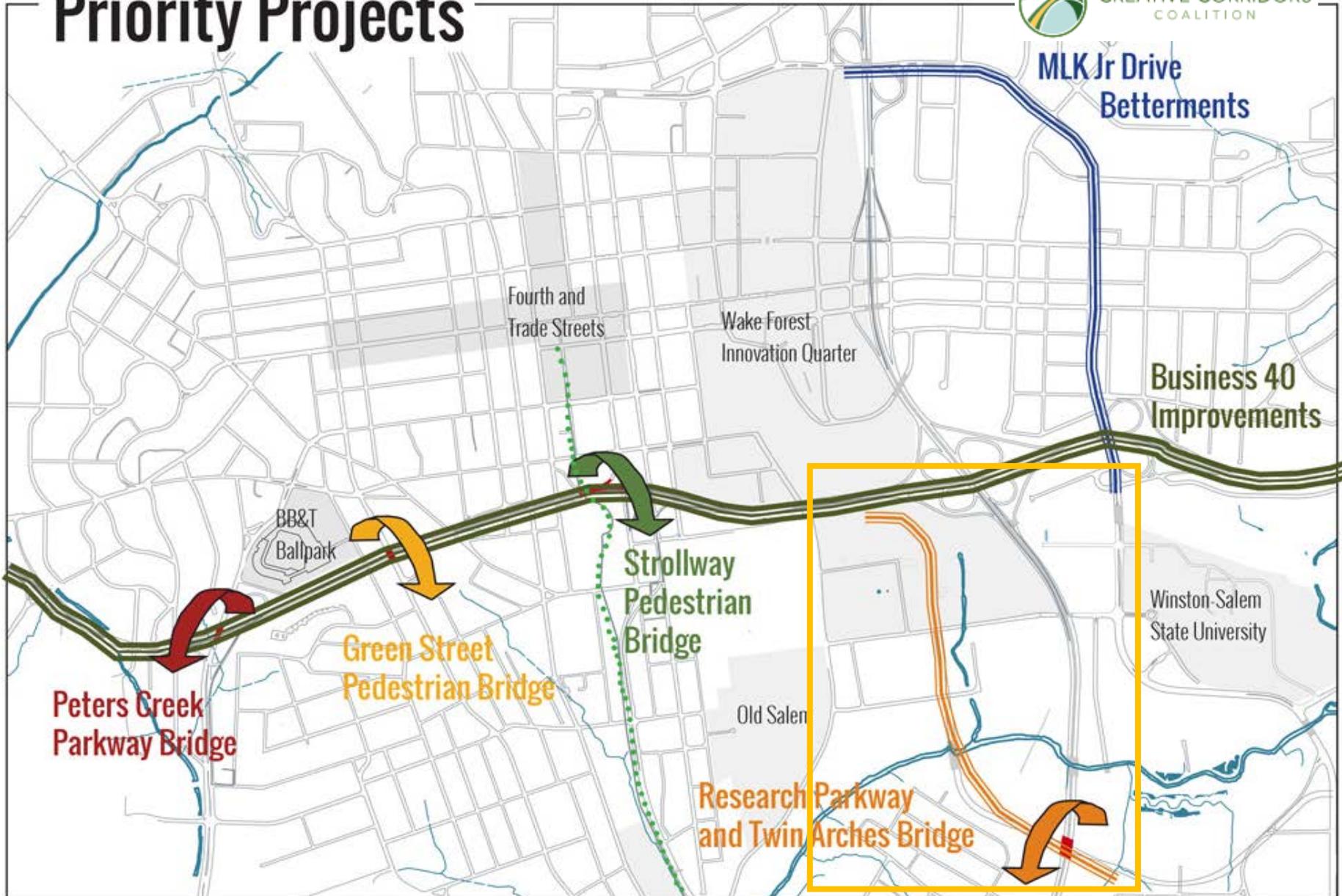
# VISIONARY



# Priority Projects



CREATIVE CORRIDORS  
COALITION



## Salem Creek Connector Pedestrian and Streetscape Enhancements

Based on Cost Estimates from NCDOT Design Unit on March 7, 2012

Further refinement prior to submission to the Design/Build Bidding Package on April 16, 2012

Pedestrian Circulation	\$ 500,000
Includes 5 ft. wide sidewalks, 10 ft wide sidepath, bridge widening to accommodate sidepath and 10 ft. greenway path	
Additional cost to consider – Humphrey St. connection	
Intersection Treatments	\$ 100,000
Includes stamped asphalt crosswalks and specialty intersection pavement design at Rams Drive/Salem Creek Connector intersections	
Medians	\$ 15,000
Includes stamped/stained concrete for the mountable portion of the roundabout at Salem Avenue and City Yard Drive	
Lighting	\$1,000,000
Includes ornamental street lights for Salem Creek Connector corridor	
Black cobrahead fixtures and poles along US 52, twin arm fixtures in the median, (NCDOT is paying for high mast lighting)	
Fencing	\$ 250,000
Includes black chain link fence along US 52 and black ornamental fence along Salem Creek Connector (still determining this height)	
Landscaping	\$ 500,000
Includes street trees, median, interchange and intersection landscape (figure does not include NCDOT landscape allowance .75% of total project budget)	
Bridge Facades	
Brick Facades	\$ 476,000
Railings custom color	\$ 19,000
Salem Creek Bridge facades	\$ 320,000
<b>Total Pedestrian and Streetscape Enhancements Commitment</b>	<b>\$3,180,000</b>
Total Surface Transportation Program – Direct Attributable (STP-DA)	\$2,544,000
Total Local Match (10% City of Winston-Salem, 10% Creative Corridors Coalition)	\$ 636,000

# *Salem Creek Connector (U-2925) Enhancements*



Decorative fencing along  
Salem Creek Greenway

Enhanced Noise Walls



# *Salem Creek Connector (U-2925) Enhancements*



Bridge rails  
Brick walls

Decorative Bridge Rails  
Mock Street

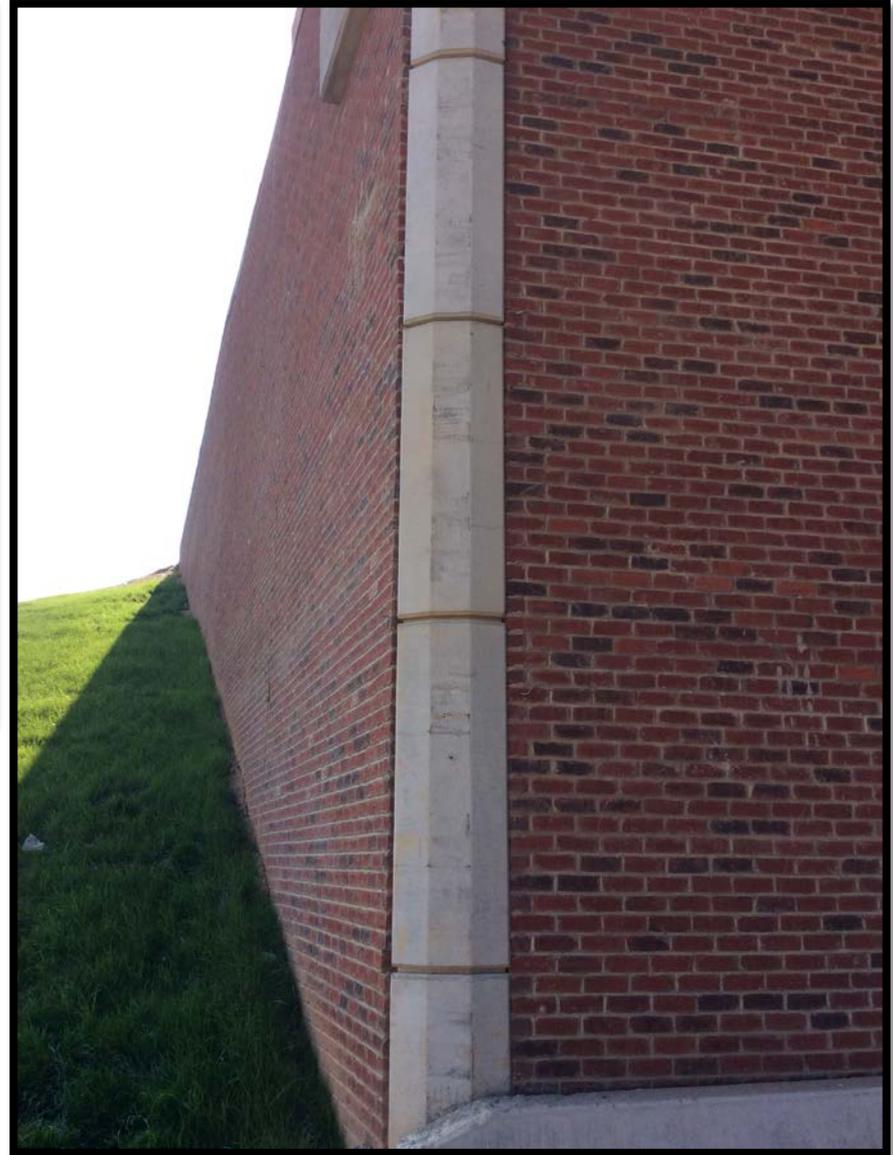


# *Salem Creek Connector (U-2925)*

## *Enhancements*



Brick Walls and bridge rails



# *Salem Creek Connector (U-2925) Enhancements*



Stamped and stained truck apron  
on Roundabout



# *Salem Creek Connector (U-2925)*



# *Salem Creek Connector (U-2925)*

Diverging  
Diamond  
interchange



# Salem Creek Connector (U-2925)



# Salem Creek Connector (U-2925)



# *Salem Creek Connector (U-2925)*



# Twin Arches Bridge and Research Parkway





*Questions?*



Transportation

# MULTIMODAL COMMITTEE MEETING MINUTES

DATE: 11/2/16 TIME: 10:30am LOCATION: EIC

<b>MEETING CALLED BY</b>	Andy Perkins
<b>BOARD ATTENDEES</b>	Andy Perkins, Tracy Dodson, Cheryl McQueary, Jeff Sheehan, Gus Tulloss, Lou Wetmore, Malcolm Fearing, Sandra Fountain, Robby Collins

## AGENDA TOPICS

<b>1. OCTOBER MINUTES APPROVAL – Andy Perkins</b>	
<b>DISCUSSION SUMMARY</b>	Approval of October Minutes.
<b>ACTIONS TAKEN</b>	Motion to approve was made by Cheryl McQueary and seconded by Lou Wetmore. Motion was approved.

<b>2. FUNDING ITEMS –PTD, RAIL, AVIATION</b>	
<b>DISCUSSION SUMMARY</b>	Information was presented by Transit Directors for the Committee’s approval
<b>ACTIONS TAKEN</b>	Motion to approve was made by Sandra Fountain and seconded by Cheryl McQueary. Motion was approved

<b>3. TRANSIT UPDATE – KEITH WEATHERLY</b>	
<b>DISCUSSION SUMMARY</b>	Mr. Weatherly introduced our newest committee member, Mr. Robert Collins. The Ferry Division was commended for the excellent job of safely evacuating and securing individuals and property during Hurricane Matthew. The Rail division had some successful public events, a ribbon cutting and christening of a new locomotive, attended by Ms. Cheryl McQueary and Mr. Jake Alexander.
<b>ACTIONS TAKEN</b>	Informational



Transportation

# MULTIMODAL COMMITTEE MEETING MINUTES

<b>4. PUBLIC TRANSPORTATION UPDATE – DEBBIE COLLINS</b>	
<b>DISCUSSION SUMMARY</b>	<p>Public Transportation providers in the 41 counties of eastern NC declared as disaster areas have been instrumental in the provision of services for evacuation from flood areas, transportation needs of the evacuated/sheltered populations and Disaster Recovery Center needs. These requests go through the County Emergency Operations Center which provides coordination with county services, Red Cross, FEMA and other local, state and national relief assistance. This is the first disaster requiring evacuation since 1999. The Emergency Transportation Statement of Work has been approved to bring additional FTA funding to support the post disaster transportation needs.</p> <p>A list of counties getting additional Public Transportation money from FEMA was requested to be sent to all committee members.</p>
<b>ACTIONS TAKEN</b>	Informational

<b>5. RAIL – PAUL WORLEY</b>	
<b>DISCUSSION SUMMARY</b>	<p>The Rail Division is working with railroads in southeastern NC that are recovering from Hurricane Matthew. Information on damage and repair costs is being collected and the division is looking into possible financial assistance including FEMA and federal sources.</p> <p>The CCX project in Rocky Mount is progressing. Work includes public meetings, developing agreements, and reviewing environmental documentation and designs.</p> <p>The Piedmont Improvement Program projects remain on schedule and the last contracts have been awarded. In September and October numerous projects have been completed: two 2 mile passing sidings, the first 4 miles of double track between Thomasville and Lexington, and 5 grade separations.</p> <p>The Santa Train will be available on December 3<sup>rd</sup>.</p>
<b>ACTIONS TAKEN</b>	Informational

# MULTIMODAL COMMITTEE MEETING MINUTES

<b>6. BICYCLE AND PEDESTRIAN – ED JOHNSON</b>	
<b>DISCUSSION SUMMARY</b>	<p>The Walk to School Day for NC surpassed expectations, 324 schools registered and nearly 100,000 parents, students, and staff participated. The Active Routes to School collaborative with the Department of Public Health played a large role in promoting this event.</p> <p>The BOT working lunch presentation will be from the City of Greensboro staff discussing their award winning Bike/Ped Plan. Bike/Ped participated at the NC State Fair Safety City for the first time this year along with the Watch For Me NC partner communities to promote the message about safe bicycling and pedestrian behaviors. This message continues work toward the Governor’s goal of Vision Zero as well as the Strategic Highway Safety plan goals.</p>
<b>ACTIONS TAKEN</b>	Informational

<b>7. AVIATION – JON ARNOLD</b>	
<b>DISCUSSION SUMMARY</b>	<p>On October 24<sup>th</sup> the Division of Aviation hosted the House Select Committee on Strategic Transportation Planning and Long-Term Funding Solutions. The Committee is chaired by Representative John Torbett. Legislators, staff, airport and aviation representatives from several airports (approximately 40 people) attended. An overview of the Department of Aviation including information on the aircraft fleet, federal and state funding provided to NC airports, and the UAS Program Office, was presented. A bus tour of RDU International Airport, a presentation on the airport’s economic impact, and nearly completed 20 year master plan was given.</p> <p>Cheryl McQueary asked if it would be possible to provide informational videos about drones to retailers in order to inform the public, as they are considering purchases, of regulation resources provided by DOA.</p> <p>The fleet’s jet was sold.</p>
<b>ACTIONS TAKEN</b>	Informational



Transportation

# MULTIMODAL COMMITTEE MEETING MINUTES

<b>8. FERRY – ED GOODWIN</b>	
<b>DISCUSSION SUMMARY</b>	<p>Mr. Goodwin reported that dredging on the approach to the basin in Ocracoke for the Hatteras/Ocracoke route has begun, it has become severely shoaled from Hurricane Matthew. This is the first dredging job utilizing the new dredge MANTEO. Most of the work is conducted at night in an effort to minimize disruption of daytime operations.</p> <p>The Swan Quarter OPS building replacement is about 90% complete and they are working with the contractor to finish up this project which has run several months behind schedule.</p> <p>The Cherry Branch OPS building replacement project is on schedule and is about 50% complete and due to be complete in Jan 2017.</p>
<b>ACTIONS TAKEN</b>	Informational

<b>9. SHALLOW WATER SURVEYING WITH SONAR IN NORTH CAROLINA (MAPPING UNDERWATER SURFACES) –KEITH HONEYCUTT, EASTERN REGIONAL LOCATING ENGINEER</b>	
<b>DISCUSSION SUMMARY</b>	<p>The committee was briefed on the mission of shallow water surveying. The process was explained and several examples were shown of how and where these sonar surveys are performed. The equipment and vessel were shown and explained.</p> <p>Bonner Bridge in Oregon Inlet is surveyed a minimum of once per month. NCDOT's 13 ferry channels/basins are surveyed a minimum of once per year, some more often. STIP project surveys around bridges and causeways are performed. Work with the Port Authority for barge mooring area surveys.</p> <p>In 2015 at total of 1060 acres were surveyed and within the first three quarters of 2016 they performed 32 missions totaling 1532 acres.</p>
<b>ACTIONS TAKEN</b>	Informational

Meeting adjourned at 11:37



# MULTIMODAL COMMITTEE AGENDA

## BOARD OF TRANSPORTATION NOVEMBER 30, 2016

**TIME: 10:30am**

**LOCATION: EIC**

<b>TOPIC</b>	<b>PRESENTER</b>	<b>TIME</b>
Call to Order	Chairman Perkins	10:30
Approval of Minutes	Chairman Perkins	10:30-10:35
Funding Items (PTD, Rail, Bicycle & Pedestrian)	Transit Directors	10:35-10:40
Transit Update	Keith Weatherly	10:40-10:45
Public Transportation Update	Debbie Collins	10:45-10:50
Rail Update	Paul Worley	10:50-10:55
Bicycle and Pedestrian Update	Ed Johnson	10:55-11:05
Aviation Update	Bobby Walston	11:05-11:15
Ferry Update	Ed Goodwin/Jed Dixon	11:15-11:25
NCDOT – Division of Aviation UAS Program Office	Bobby Walston	11:25-12:00
Adjourn	Chairman Perkins	12:00



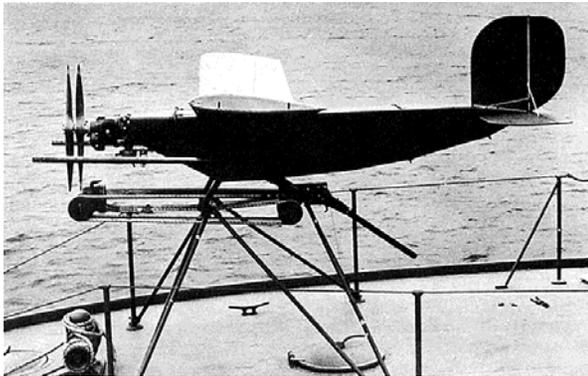
*NCDOT - Division of Aviation  
UAS Program Office*

Bobby Walston, PE



# *Quick UAS History Fact*

- Radioplane OQ-2 was the first mass-produced drone in the US
- Used to train Army and Navy anti-aircraft gunners during WW2
- The first instance of “Drone” being associated with remotely piloted vehicle



# *NCDOT Aviation UAS Program Office*



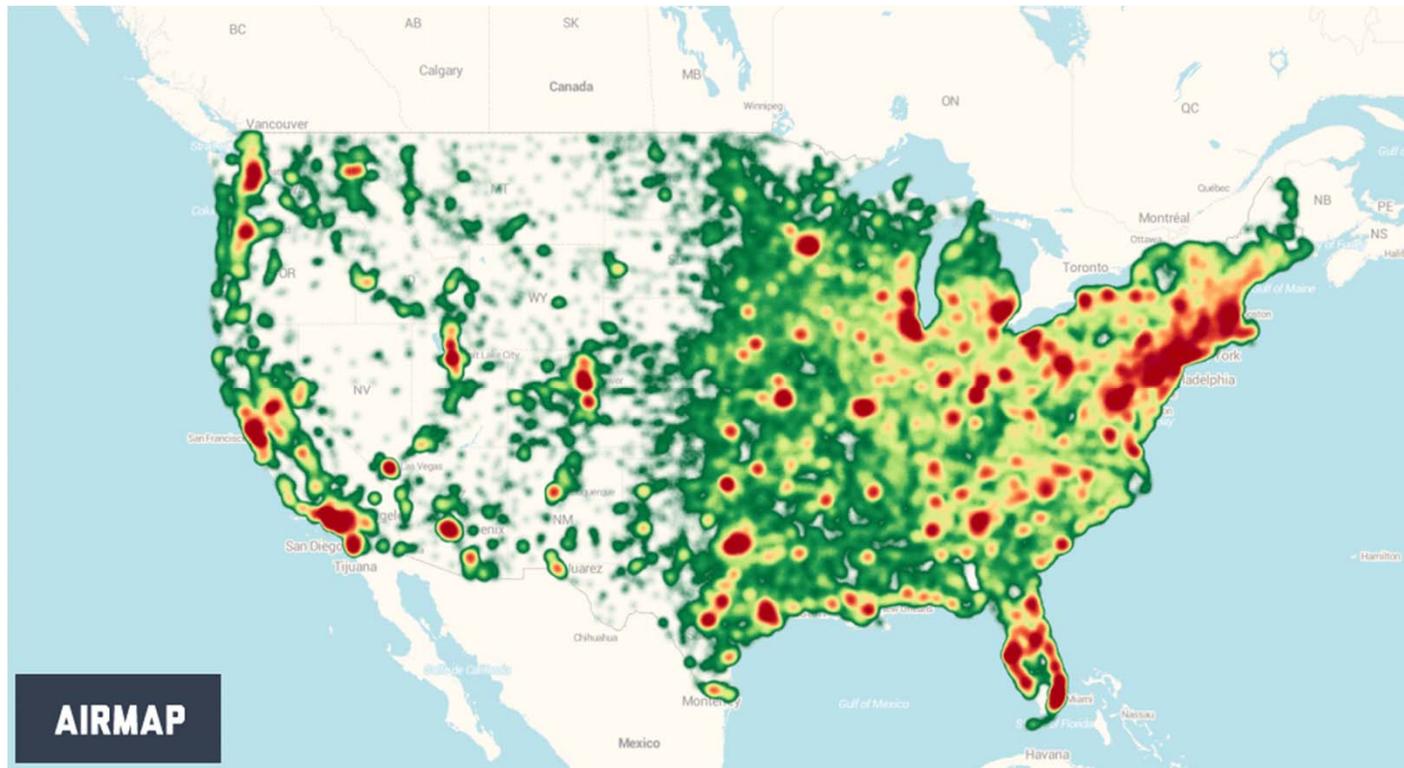
# *Hobbyist Drone Registrations*



As of May 2016, FAA records show:

- 459,374 hobbyist drones registered in the United States
- 13,017 hobbyist drones registered in North Carolina

Source [FAA](#)



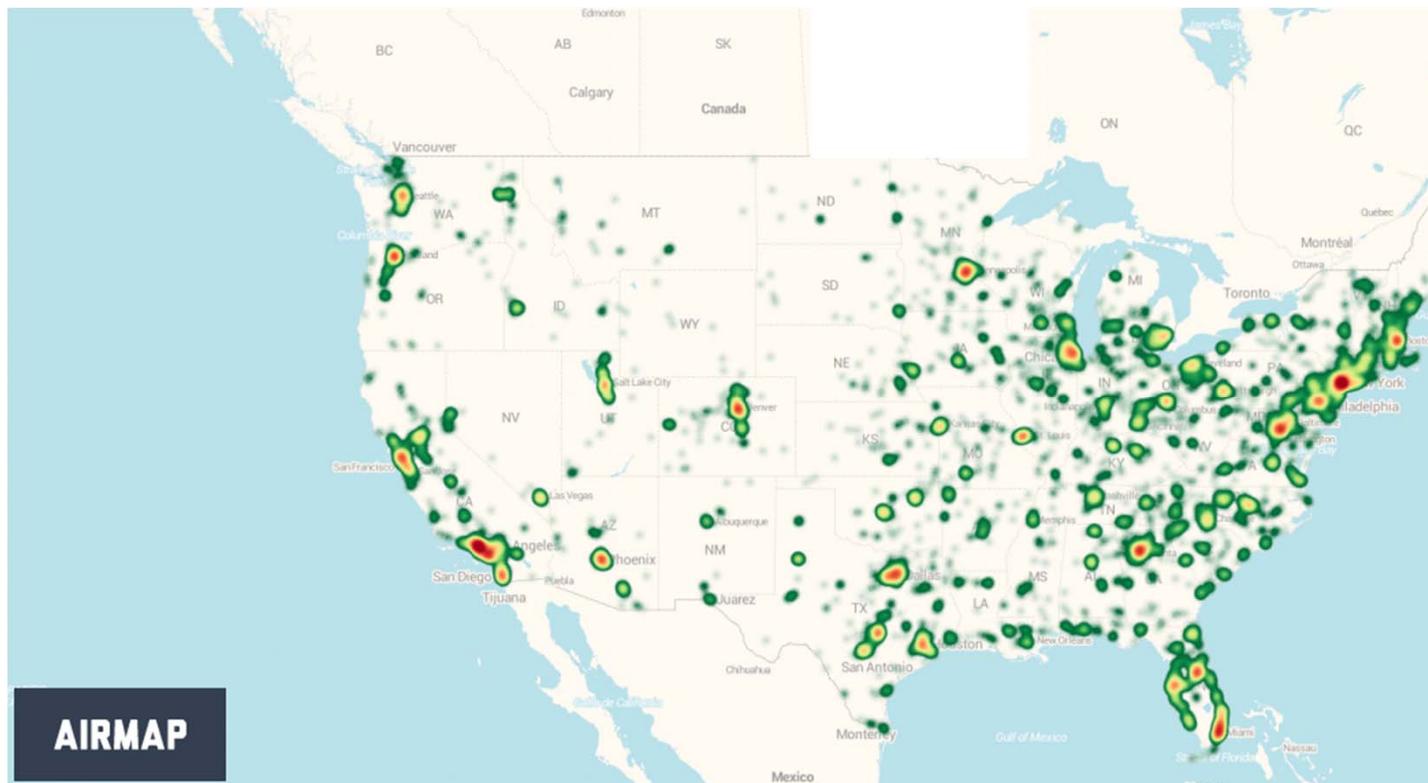


# *Non-Hobbyist Drone Registrations*

As of May 2016, FAA records show:

- 8,357 non-hobbyist drones registered in the United States
- 247 non-hobbyist drones registered in North Carolina

Source [FAA](#)

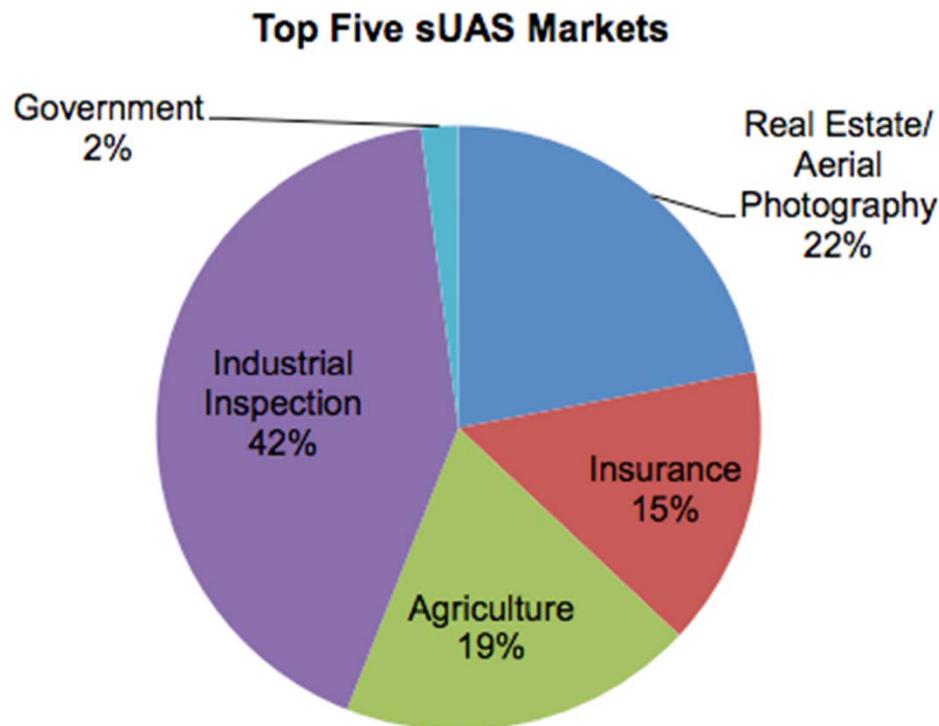


# FAA sUAS Forecasts



- FAA estimates for small, hobbyist UAS purchases may grow from 1.9 million in 2016 to as many as 4.3 million by 2020.
- Sales of UAS for commercial purposes are expected to grow from 600,000 in 2016 to 2.7 million by 2020.
- Combined total hobbyist and commercial UAS sales are expected to rise from 2.5 million in 2016 to 7 million in 2020.

# FAA sUAS Forecasts

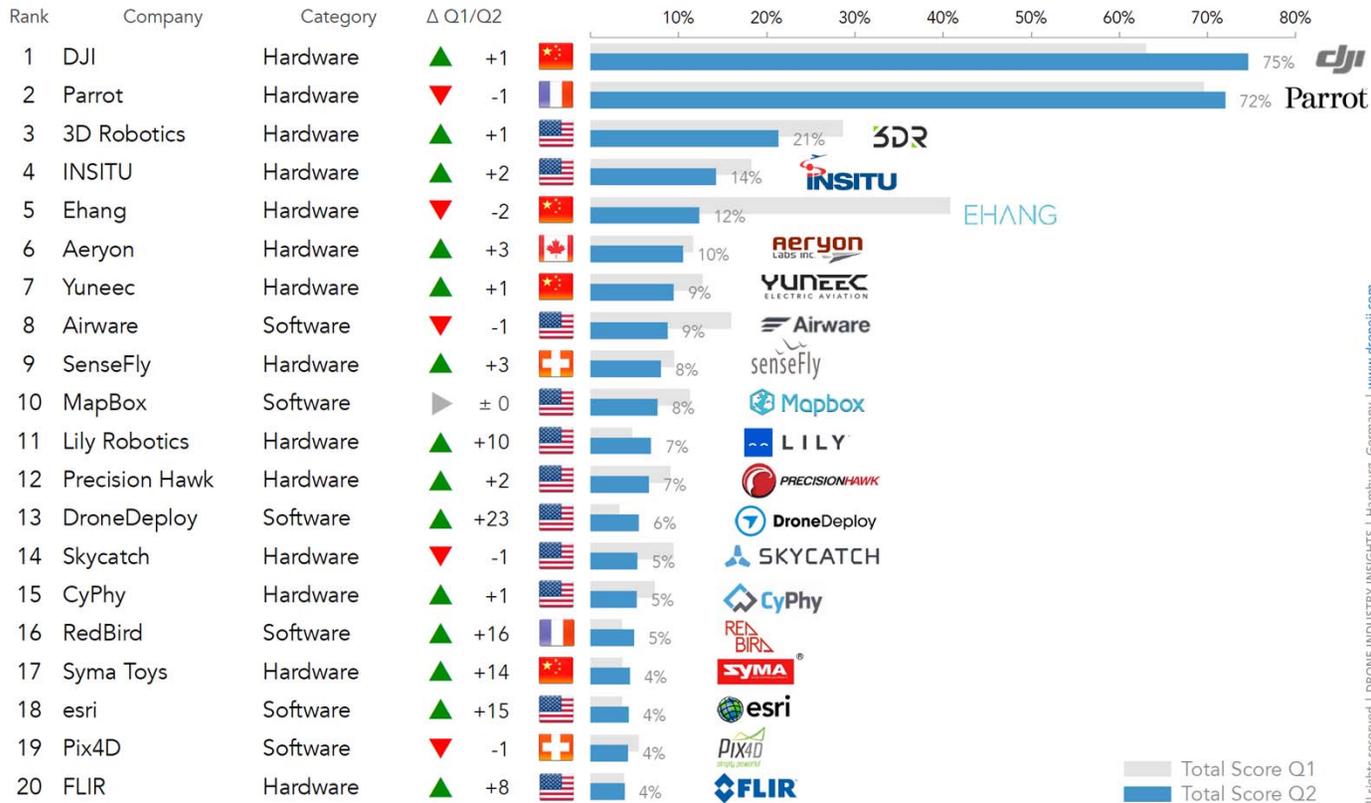


- The FAA recognizes that the full potential of commercial UAS operations are restrained by the existing regulatory framework
- “The overall demand for commercial UAS will soar once regulations more easily enable beyond visual line of sight (BVLOS) operations and operations of multiple UA by a single pilot.”

# Consumer Sales

DRONE INDUSTRY INSIGHTS

TOP20 Drone Company Ranking Q2 2016



Feb. 2016, Sources:

Number of Google searches: How often people search for the companies on Google in conjunction with "drone" and "UAV";

Number of News items: How often newspapers and blogs mention the companies in conjunction with "drone" and "UAV";

Number of Drone Company employees: How many company employees carry the tag "drone" or "UAS" on LinkedIn;

The highest scoring company in each dimension receives a rating of 100%, with all other drone companies receiving a lower percentage in linear relation to the score of the highest ranking company. The total score is an average of all four measured dimensions. A company can reach an index of 100% if he leads all considered sources.

DRONEII.COM  
DRONE INDUSTRY INSIGHTS

© 2015 all rights reserved | DRONE INDUSTRY INSIGHTS | Hamburg, Germany | www.droneii.com



# *Interactions with Manned Aircraft*



Between August 2015 and January 2016:

- 12 registered UAS sightings in North Carolina
- 583 registered UAS sightings in the United States

Source: [http://www.faa.gov/uas/resources/uas\\_sightings\\_report/](http://www.faa.gov/uas/resources/uas_sightings_report/)



Photo Source: Flickr



# Traffic Monitoring - DDI



**NC STATE UNIVERSITY**

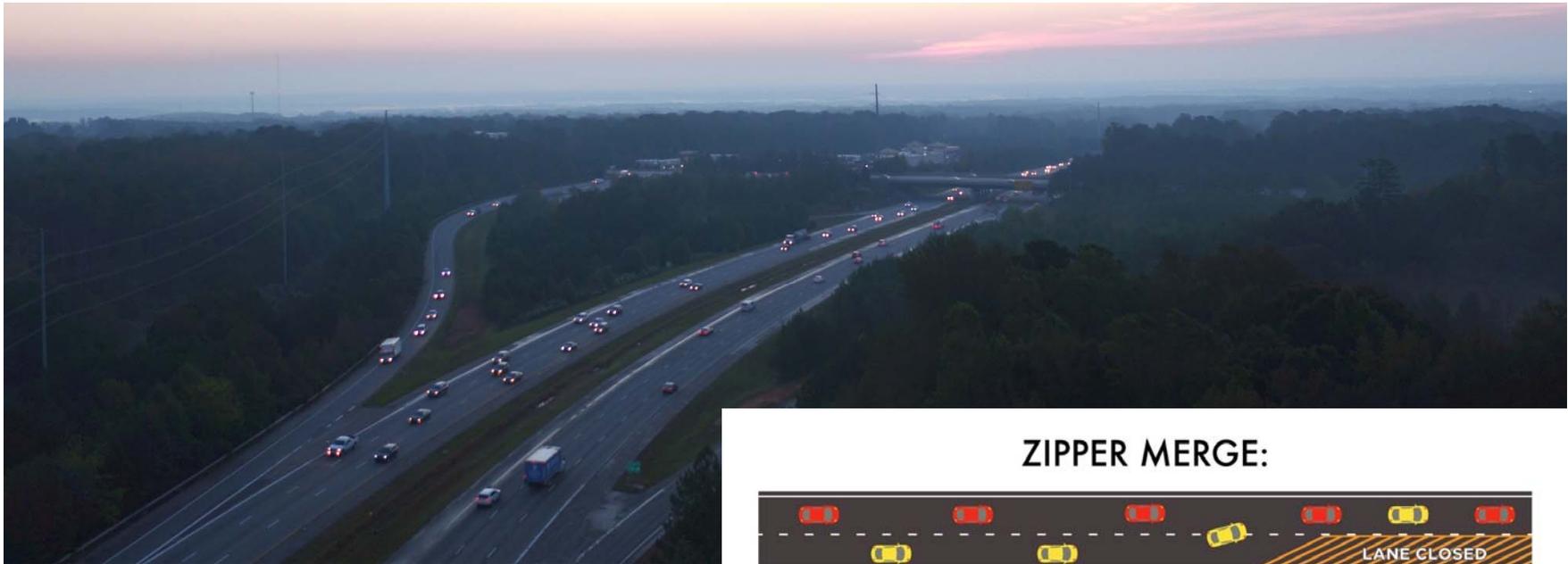


**NGAT**





# Traffic Monitoring – Late Lane Merges



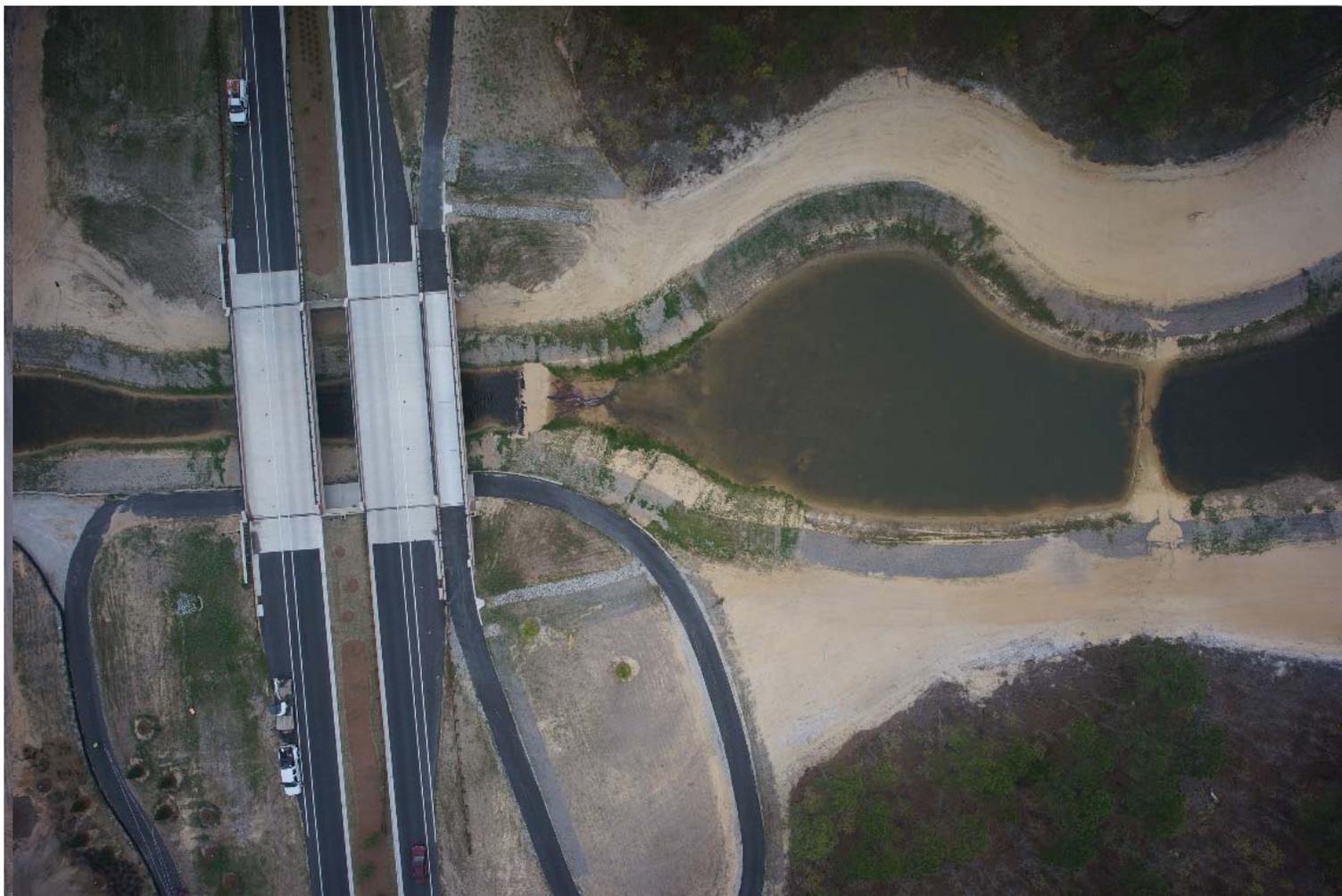
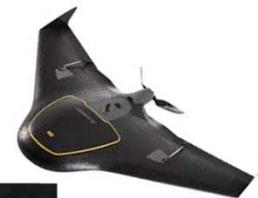
**NC STATE UNIVERSITY**



**NGAT**



# *Construction Project Monitoring*



**NC STATE UNIVERSITY**

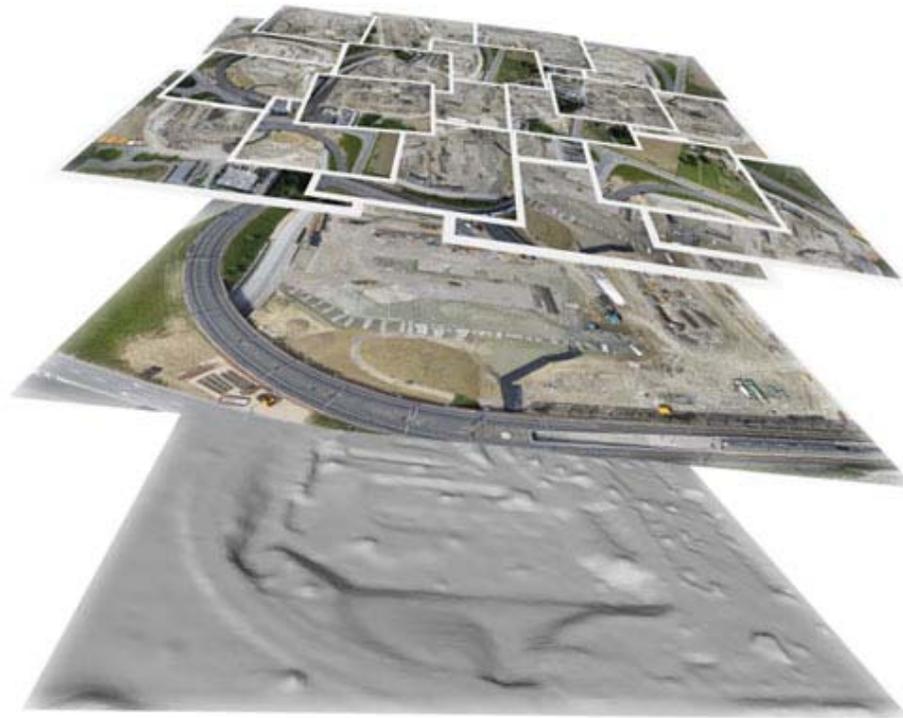


**NGAT**



*Transportation*

# *Construction Project Monitoring*



**NC STATE UNIVERSITY**

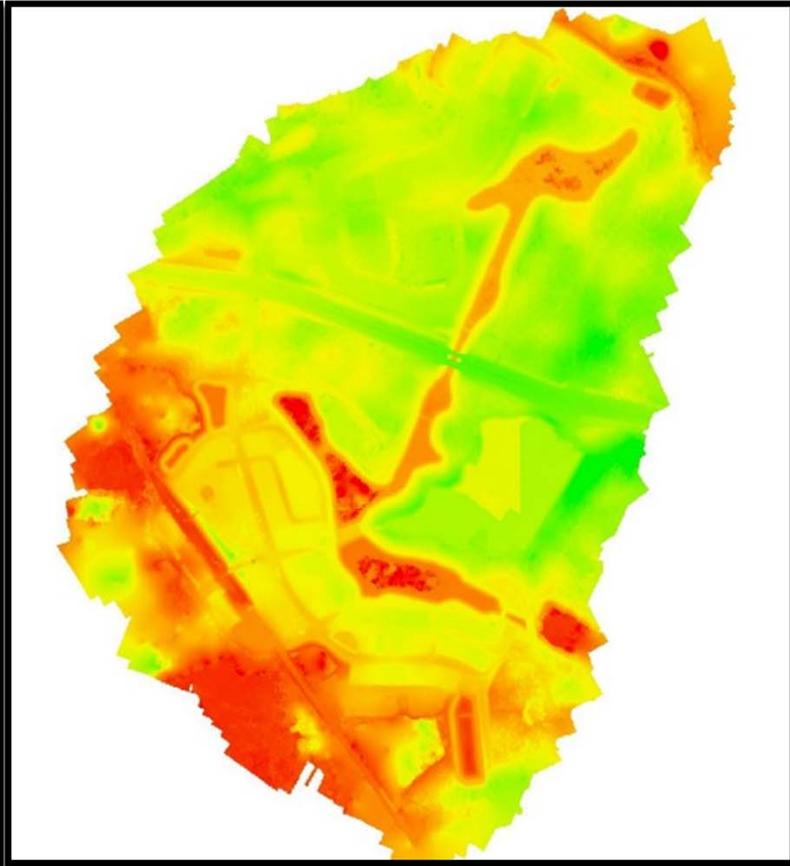


**NGAT**



*Transportation*

# Construction Project Monitoring



**NC STATE UNIVERSITY**



**NGAT**



*Transportation*

# *Yamaha RMAX Operations Hyde County*



**NC STATE** UNIVERSITY



**NGAT**



*Transportation*

# *Gallants Channel Bridge Inspection*



**NC STATE UNIVERSITY**

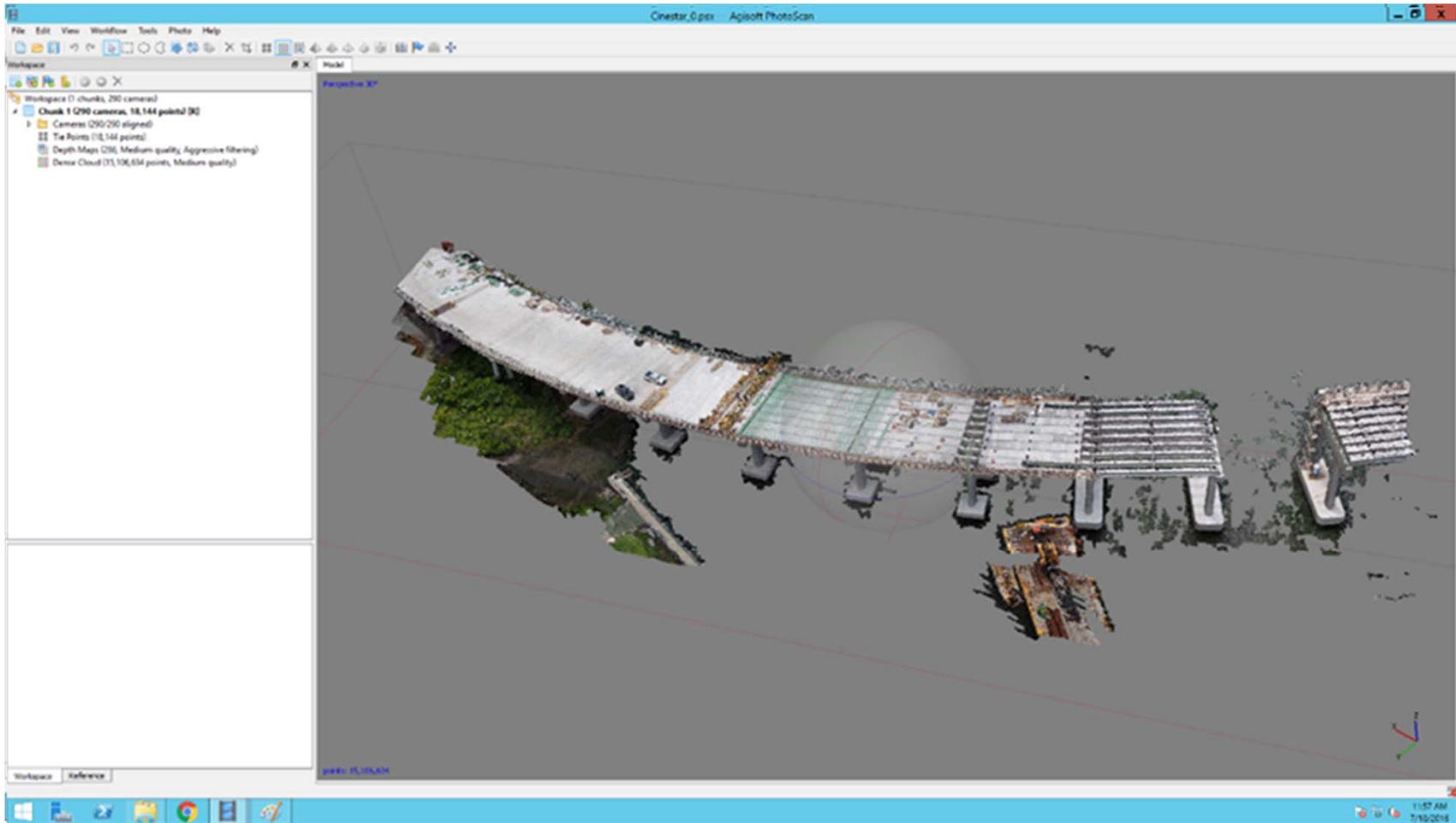


**NGAT**



*Transportation*

# 3D Model Construction



**NC STATE UNIVERSITY**



**NGAT**



*Transportation*

# *Airport Inspection*



# *Visual Inspections*



**NC STATE UNIVERSITY**



**NGAT**



# *Disaster Response*



# *New FAA small UAS rule*



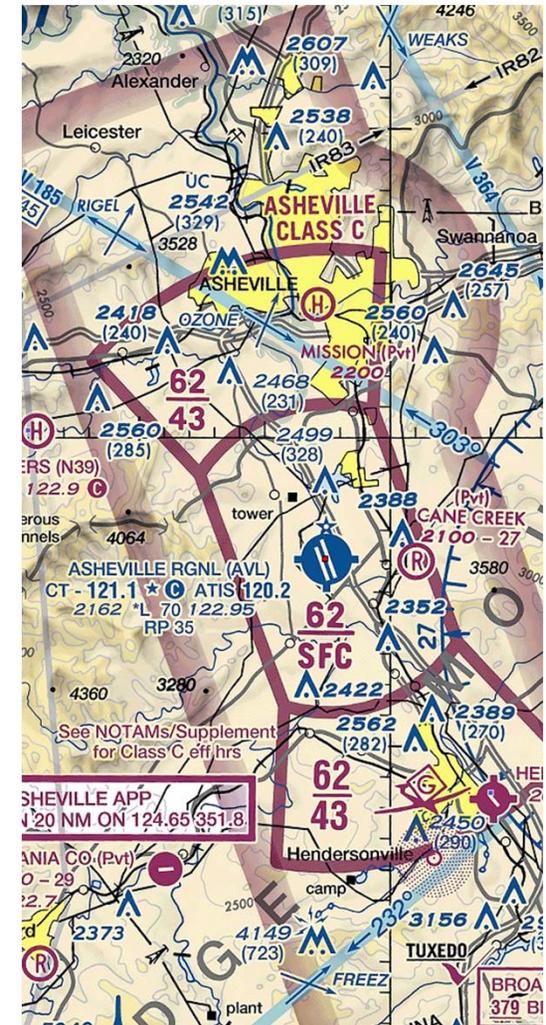
- *FAR Part 107 “Small UAS Rule”, Effective: August 29, 2016*
- Major Provisions:
  - Small UAS is between .55lbs and 55lbs
  - Operators must have a Remote Pilot’s Certificate from the FAA or else operate the drone under the supervision of someone who has obtained the certificate.
    - Certificates valid for 2 years
    - Minimum age: 16
  - Operators may fly both during the day and in civil twilight;
  - Max altitude 400ft AGL, Max Speed 100 mph;
  - Operators cannot fly a drone over anyone not involved with the operation;
  - Operators must keep a drone within their line of sight while it is flying.
  - *Waivers and Airspace authorizations can be requested through FAA*



# Legally operating a UAS



- COAs and Section 333 Exemptions not going away – still are available as a means for authorizing operations not covered under Part 107 – e.g. UAS over 55 lbs or high altitude operations.
- FAR Part 107 Remote Pilot Certificate
  - New pilots must pass a FAA Aeronautical Knowledge Test administered by FAA-approved Flight Testing Centers and pass TSA background check.
  - Or existing aircraft pilots can obtain Remote Pilot Certificate by completing an online course at <https://www.faa.gov>, have a current flight review, and apply for the rating with FAA.



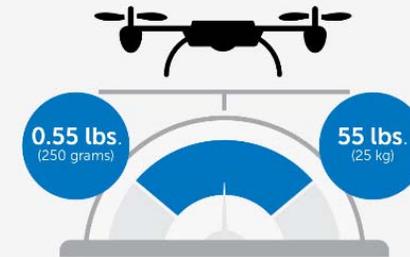
# Register your Drone



- Hobbyist and non-hobbyist drones need to be registered with the FAA
- <https://registermyuas.faa.gov>

## Do I need to register my Unmanned Aircraft?

You need to register your aircraft if it weighs between 0.55 lbs. (250 grams) and up to 55 lbs. (25 kg)



You will be subject to civil and criminal penalties if you meet the criteria to register an unmanned aircraft and do not register.

REGISTER

## Summary of NC S.L. 2014-100 regarding UAS

### Updated by passage of NC S.L. 2015-232

*Changes or additions to the following:*

- Chapter 14 – Criminal Law
  - §14-7.45 Crimes committed by use of UAS
  - §14.280.3 Interference with manned aircraft by UAS
  - §14.401.24 Unlawful possession and use of UAS (Weapon attached)
  - §14.401.25 Unlawful distribution of images
- Chapter 15A – Criminal Procedure
  - §15A-300.1 Restrictions on use of UAS
  - §15A-300.2 Regulation of launch and recovery sites



## Summary of NC S.L. 2014-100 regarding UAS

### Updated by passage of NC S.L. 2015-232

*Changes or additions to the following:*

- **Chapter 63 – Aeronautics**
  - **§63-95 Training required for operations of UAS (Knowledge Testing)**
  - **§63-96 Permit required for commercial operation of UAS**
- Chapter 113 – Conservation and Development
  - §113-295 Unlawful harassment of persons taking wildlife resources

**Unmanned Aircraft Systems in  
NORTH CAROLINA**

**NORTH CAROLINA  
GENERAL STATUTES**

**Session Law 2014-100**  
Updated in Session Law 2015-232

While this is a summary of Session Law 2014-100 & 2015-232 relating to UAS operations, other General Statutes apply to UAS operations within North Carolina.

-  **Surveillance:** It is illegal to use UAS to take or distribute images of a person or their home without their consent. (NC GS § 15A-300.1 and NC GS § 14-401.25)
-  **Special Imaging:** Special imaging technology can only be used for specific missions, including but not limited to scientific research, surveying, and agricultural uses. (NC GS § 15A-300.1 and NC GS § 14-401.25)
-  **Weapons:** Attaching a weapon to a UAS is a class E felony. (NC GS § 14-401.24)
-  **Hunting and Fishing:** You may not use a UAS to disrupt wildlife resources or the lawful taking of wildlife. It is also against the law in NC to use a UAS in the process of taking wildlife resources. (NC GS § 14-280.3)
-  **Interference with Manned Flights:** You may not damage, disrupt the operation of, or otherwise interfere with manned flights. (NC GS § 14-280.3)
-  **Launch/Recovery Sites:** It is illegal to launch or recover your UAS from either private or public property without explicit consent of the property's owner. (NC GS § 15A-300.2)
-  **Knowledge Test:** To fly in North Carolina, you must pass the NCDOT's UAS Knowledge Test to ensure your safety and the safety of those around you. (NC GS § 63-95)
-  **Permit:** With the passing of the Knowledge Test as a prerequisite, commercial operators may request an NC UAS permit from the NCDOT Aviation Division. (NC GS § 63-96)

For more information, visit [www.ncdot.gov/aviation/UAS](http://www.ncdot.gov/aviation/UAS)

 **DIVISION OF AVIATION**  
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

# NC UAS Website

- Online administration of NC UAS Operators Knowledge Test
- Commercial and Government UAS Operator's Permits can be acquired online
- UAS Safety Guide and NC Statutes
- Helpful Links

[ncdot.gov/aviation/uas/](http://ncdot.gov/aviation/uas/)

**UAS Operator Permitting**  
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

UAS Home Page | Division of Aviation

Business DMV Newsroom Programs Projects Travel & Maps

Division of Aviation » Unmanned Aircraft Systems » Knowledge Test & Operator Permitting

## Start Knowledge Test

Do you know the requirements to fly a drone in North Carolina?

Download the Study Guide to learn North Carolina's rules and regulations. Take the Knowledge Test to challenge yourself (recreational operators) or to apply for an operator permit (commercial and government operators).

[Download Study Guide](#)

[Start Knowledge Test](#)

BEFORE YOU BEGIN

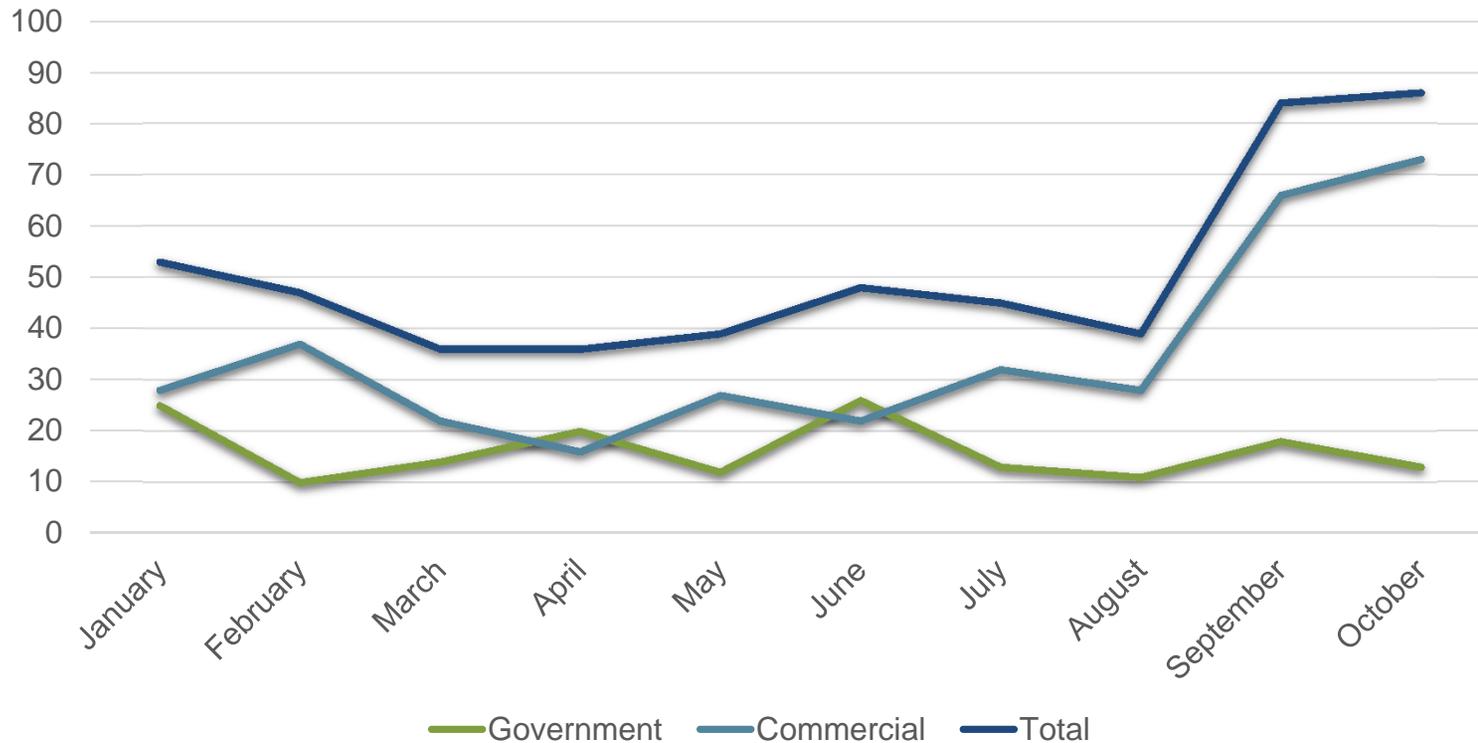
### Requirements for Operator Permitting in North Carolina

Commercial	Government Operations	Recreational
<ul style="list-style-type: none"><li>✓ Obtain a <a href="#">Section 333 Exemption</a> from the Federal Aviation Administration (FAA).</li><li>✓ Alternatively, a <a href="#">Special Airworthiness Certificate</a> can be obtained from the FAA.</li><li>✓ Operator must pass the NCDOT UAS Knowledge Test.</li><li>✓ Operator must have a valid Driver License.</li><li>✓ Operator must have a valid <a href="#">Airman Certificate</a> or a sponsor with valid Airman Certificate.</li></ul>	<ul style="list-style-type: none"><li>✓ Obtain a <a href="#">Certificate of Authorization</a> from the Federal Aviation Administration (FAA).</li><li>✓ Operator must pass the NCDOT UAS Knowledge Test.</li><li>✓ Operator must have a valid Driver License.</li></ul>	<ul style="list-style-type: none"><li>✓ Recreational UAS/drone operators are not required to obtain a permit from the Division of Aviation.</li><li>⚠ Recreational operators are required to register their UAS through the <a href="#">FAA's UAS Registration Service</a>.</li></ul>
<a href="#">More Information</a>	<a href="#">More Information</a>	<a href="#">More Information</a>

© 2015 North Carolina Department of Transportation Home NCDOT NC.gov Accessibility Privacy Statement

# NC UAS Permits Issued

As of Nov. 1: 162 Government Permits, 351 Commercial Permits, 513 Total



# Communications Campaign

- UAS Program Office regularly speaks to groups throughout the state, the following are just a few from the last three months:

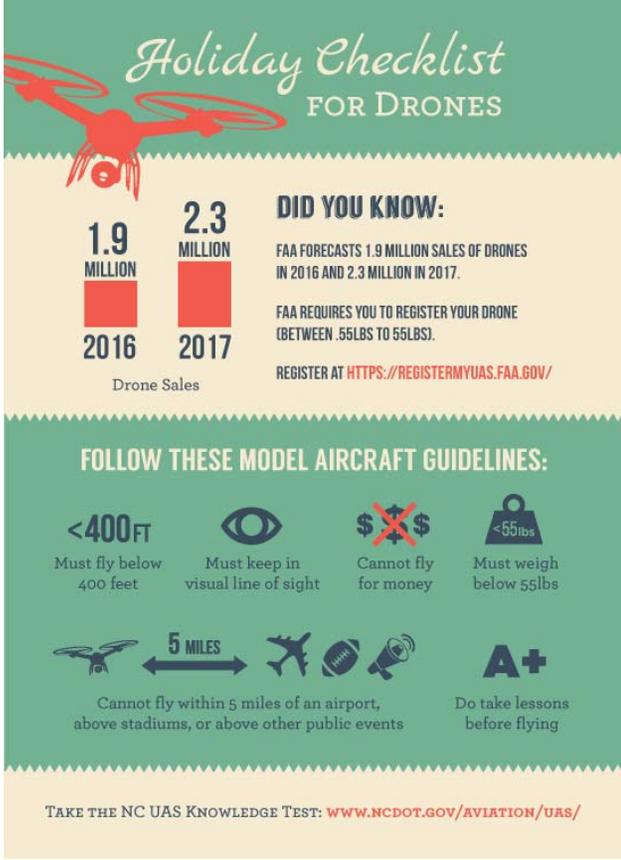


**NC STATE UNIVERSITY**



# 2016 Holiday Drone Campaign

- Social Media Posts – Regularly update content throughout the month with a focus on hobbyist and recreational drone safety
  - Facebook
  - Twitter
  - Instagram
- Facebook Live Event
  - Provide live Q&A sessions throughout the month of December
- Gift tag PDF flyer
- Release videos through NCDOT Communications YouTube Channel



*Holiday Checklist*  
FOR DRONES

**1.9 MILLION** 2016  
**2.3 MILLION** 2017  
Drone Sales

**DID YOU KNOW:**  
FAA FORECASTS 1.9 MILLION SALES OF DRONES IN 2016 AND 2.3 MILLION IN 2017.  
FAA REQUIRES YOU TO REGISTER YOUR DRONE (BETWEEN .55LBS TO 55LBS).  
REGISTER AT [HTTPS://REGISTERMYUAS.FAA.GOV/](https://registermyuas.faa.gov/)

**FOLLOW THESE MODEL AIRCRAFT GUIDELINES:**

- <400FT**  
Must fly below 400 feet
- Must keep in visual line of sight**
- Cannot fly for money**
- Must weigh below 55lbs**
- 5 MILES**  
Cannot fly within 5 miles of an airport, above stadiums, or above other public events
- A+**  
Do take lessons before flying

TAKE THE NC UAS KNOWLEDGE TEST: [WWW.NCDOT.GOV/AVIATION/UAS/](http://WWW.NCDOT.GOV/AVIATION/UAS/)



# *Holiday Checklist – New Drone Owner*

If the UAS/drone is for hobbyist use, you must:

- ✓ Register your UAS/drone with the FAA online
- ✓ Operate within the hobbyist rules

Recommended:

- ✓ Take the NC UAS Knowledge Test



**Unmanned Aircraft Systems in NORTH CAROLINA** 

**HOBBYIST GUIDELINES**  
*Rules for flying hobbyist or recreational drones*

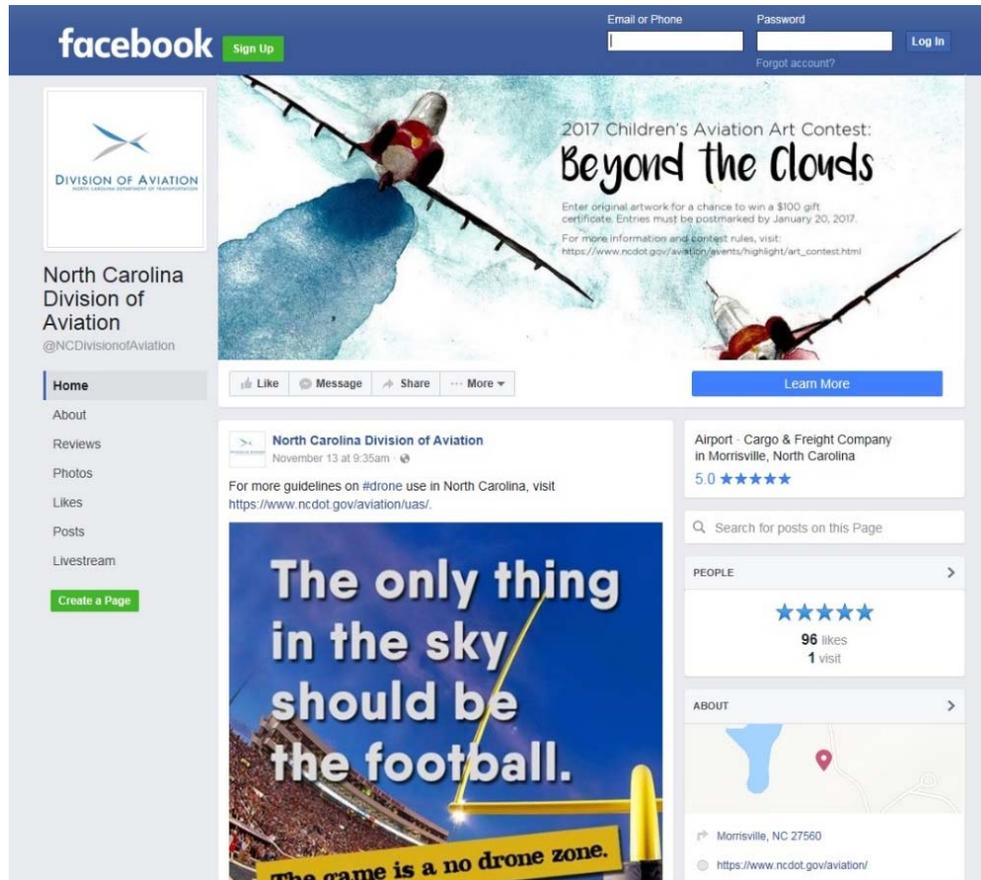
- ✓ Must fly below 400 feet
- ✓ Must fly within your line of sight
- ✓ Do not fly within 5 miles of an airports, above stadiums, or above other public events
- ✓ Do not fly for compensation
- ✓ Aircraft must weigh less than 55 lbs
- ✓ Do take lessons before flying

For more information, visit  
[www.ncdot.gov/aviation/uas](http://www.ncdot.gov/aviation/uas)  
[www.faa.gov/uas](http://www.faa.gov/uas)  
[www.knowbeforeyoufly.org](http://www.knowbeforeyoufly.org)

 **DIVISION OF AVIATION**  
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION



# Follow US on Social Media



- Facebook Page - North Carolina Division of Aviation
- Twitter - @NCAviation
- Instagram - @ncaviation



# *Discussion*

**Bobby Walston, PE**  
bwalston@ncdot.gov  
NCDOT - Aviation Director

**Chris Gibson**  
cgibson2@ncdot.gov  
NCDOT - UAS Program Manager

**Basil Yap**  
bkyap@ncdot.gov  
NCDOT – UAS Project Manager

[www.ncdot.gov/aviation/UAS](http://www.ncdot.gov/aviation/UAS)



**NORTH CAROLINA DEPARTMENT OF TRANSPORTATION  
FERRY DIVISION MONTHLY UPDATE REPORT FOR OCT 2016**

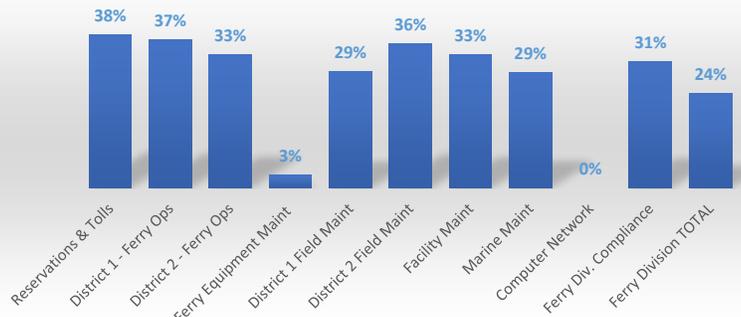
**Ridership (Vehicles)**

Ferry Routes	CY16 OCT	CY15 OCT	DELTA	FY17 YTD	FY16 YTD	DELTA
Currituck - Knotts Island	1,382	1,672	-17.3%	7,064	8,071	-12.5%
Hatteras - South Dock	11,835	16,976	-30.3%	12,259	127,193	-90.4%
Swan Quarter - Ocracoke	2,307	2,699	-14.5%	14,214	15,422	-7.8%
Cedar Island - Ocracoke	2,776	3,427	-19.0%	21,299	22,290	-4.4%
Aurora - Bayview	3,873	3,747	3.4%	17,312	17,180	0.8%
Cherry Branch - Minnesott	12,008	12,680	-5.3%	70,275	69,970	0.4%
South Port - Fort Fisher	13,380	12,536	6.7%	83,335	81,910	1.7%
Emergency Ferry Rt.	N/A	N/A	N/A	N/A	N/A	N/A
Monthly Total	47,561	53,737	-11.5%	225,758	342,036	-34.0%
Schedule Maintained	87.6%	82.8%	5.8%	95.3%	93.9%	1.4%

**Budget (Operations & Maintenance)**

Departments	FY2017 Spending Plan	FY17 Expenditures through OCT 2016
Reservations & Tolls	\$ 560,435.00	\$ 213,818.60
District 1 - Ferry Ops	\$ 11,089,827.00	\$ 4,082,836.48
District 2 - Ferry Ops	\$ 8,688,190.00	\$ 2,889,611.95
Ferry Equipment Maint	\$ 13,301,461.00	\$ 422,083.00
District 1 Field Maint	\$ 582,121.00	\$ 168,024.21
District 2 Field Maint	\$ 486,418.00	\$ 174,345.79
Facility Maint	\$ 487,614.00	\$ 161,317.55
Marine Maint	\$ 1,200,432.00	\$ 344,501.87
Computer Network	\$ 3,757.00	\$ -
Ferry Div. Compliance	\$ 1,637,137.00	\$ 513,902.89
Ferry Division TOTAL	\$ 38,037,392.00	\$ 8,970,442.34

**Percent of Planned Budget Spent**



**Status of Capital Reserves Funds**

Routes	WBS	WBS Balance as of	OCT 2016
FER Sys Cptl All Routes	16SP.501.1	\$	109,194.00
FER D1 Currituck-Knotts Island Cap Reserve	16SP.511.1	\$	24,283.75
FER D1 Hatteras Inlet Cap Reserve	16SP.512.1	\$	172,950.79
FER D1 Swan Quarter - Ocracoke Island Cap Reserve	16SP.513.1	\$	1,442,919.54
FER D1 Ocracoke Island of OI-Cedar Island Cap Reserve	16SP.514.1	\$	1,329,248.07
FER D2 Pamlico River Route Cap Reserve	16SP.521.1	\$	27,190.93
FER D2 Cherry Branch - Minnesott Beach Cap Reserve	16SP.522.1	\$	137,479.16
FER D2 Cedar Island of OI - Cedar Island Cap Reserve	16SP.523.1	\$	1,329,232.78
FER D3 South Port - Fort Fisher Cap Reserve	16SP.531.1	\$	2,948,756.39
FER Shipyard Capital Reserve	16SP.43	\$	1,388,750.11
Total		\$	8,910,005.52

**Updates or Comments**

- The dredge MANTEO is working the entrance to Ocracoke basin. This area was severely impacted from Hurricane Matthew.
- The Swan Quarter OPS building replacment is 95% complete.
- The Cherry Branch OPS building replacment is 50% complete.

**Shipyard Capital Reserve Brief**

Expenditures	OCT 2016	Cumulative
16SP.43.1	\$0.00	\$293,678.20
Receipts	OCT 2016	Cumulative
16SP.43.2	\$533.05	\$1,682,428.31
Commitment Line Items	Value	
Dessicant Dryer Package (Air Power)	\$49,215.53	
Heavy Duty Mobility Gear - multiple	\$258,032.21	
Underground bores-materials (Contracted)	\$13,374.00	
Machining tools	\$36,509.55	
PSC Operator Control Console (Vessel Lift)	\$93,137.00	
<b>Total Commitments</b>	<b>\$450,268.29</b>	
Upcoming priorities	Estimate	
Water tower restoration	\$500,000.00	
Replace 30 year old boiler system	\$100,000.00	
Pending Receipts	Amount	
USACE - Currituck	\$20,965.70	



# PIEDMONT & CAROLINIAN PERFORMANCE SNAPSHOT

NCDOT RAIL DIVISION for the Month of SEPTEMBER 2016

## Ridership

	FFY16 SEP	FFY15 SEP	Δ	FFY16 YTD	FFY15 YTD	Δ
<b>Carolinian</b>	19,992	21,707	-8%	285,801	298,973	-4%
<b>Piedmont</b>	12,873	12,297	5%	152,175	161,487	-6%
<b>Total</b>	32,865	34,004	-3%	437,976	460,460	-5%

### Number of Trains

### Average Number of Passengers per Train

FFY16 SEP	FFY15 SEP	Service	FFY16 SEP	FFY15 SEP	Δ
56	60	<b>Carolinian</b>	357	362	-1%
116	115	<b>Piedmont</b>	111	107	4%

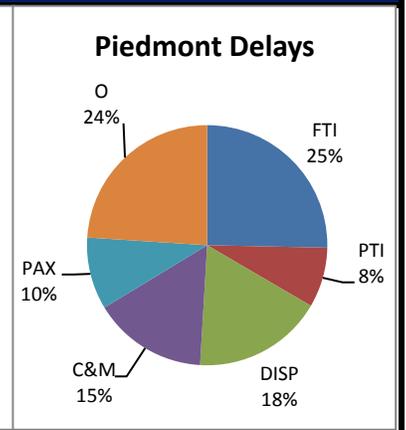
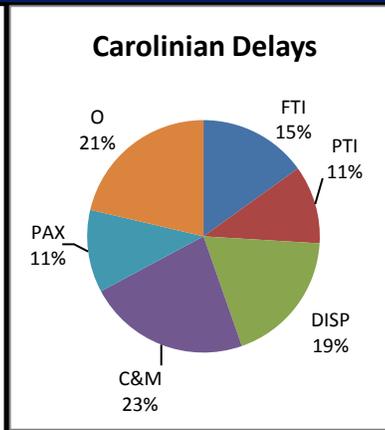
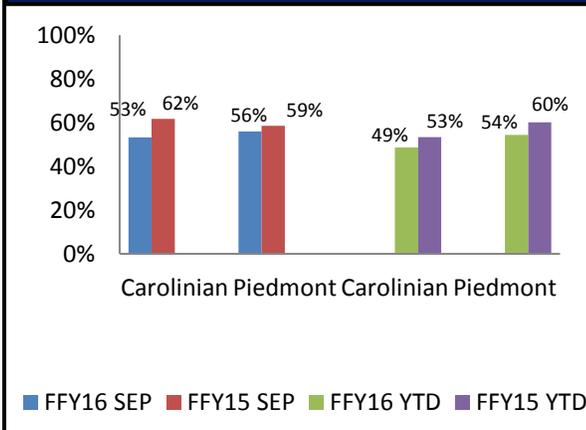
## Revenue

	FFY16 SEP	FFY15 SEP	Δ	FFY16 YTD	FFY15 YTD	Δ
<b>Carolinian</b>	\$1,230,867	\$1,320,684	-7%	\$18,120,733	\$19,217,309	-6%
<b>Piedmont</b>	\$277,919	\$259,146	7%	\$3,213,742	\$3,304,601	-3%
<b>Total</b>	\$1,508,786	\$1,579,830	-4%	\$21,334,475	\$22,521,910	-5%

<b>Amenities &amp; Vending</b>	Mo. Surcharge + Vending Income	\$21,970	Mo. Expense	\$4,975	Mo. Surplus	\$16,994
--------------------------------	--------------------------------	----------	-------------	---------	-------------	----------

**September 2016 service modifications and annulments impacted four Piedmont trains and six Carolinian trains.** On September 19, all Piedmont trains were annulled and Carolinian trains operated between New York and Raleigh only to accommodate PIP project work. On September 26 - 28, Carolinian trains operated between Raleigh and Charlotte only to accommodate CSX track work. Additional disruptions for PIP project work will continue to occur as necessary through completion of the project. Average gasoline prices were approximately equal in September 2016 and September 2015 (EIA Weekly Retail Gasoline for Lower Atlantic region).

## On-time Performance



\*Carolinian and Piedmont delays were 6,449 and 3,612 minutes, respectively. FTI - Freight Train Interference; PTI - Passenger Train Interference; DISP - Dispatch Related; C&M - Construction, Maintenance; PAX - Any Passenger Related; O - All Other Delays (e.g. weather, mechanical). Carolinian trains arriving within 20 minutes and Piedmont trains within 10 minutes of schedule are considered on time.

## Overall Customer Satisfaction

	FFY16 AUGUST	FFY15 YEAR-END	Δ
<b>Carolinian</b>	76%	75%	1%
<b>Piedmont</b>	92%	90%	2%

\*The customer satisfaction index (eCSI) is calculated from rider survey data conducted on line and is for one month prior to the current report month. Overall satisfaction is defined as average scores greater than or equal to 80. Customer satisfaction goals for FFY 2015 were 79% for the Carolinian and 90% for the Piedmont; and for FFY 2016 are 77% for the Carolinian and 91% for the Piedmont. Overall August eCSI for all Amtrak services was 81%.

## North Carolina City Pairs with Largest Ridership

	Carolinian	Piedmont
1	Charlotte - Raleigh	Charlotte - Raleigh
2	Raleigh - Washington	Charlotte - Greensboro
3	Charlotte - Durham	Charlotte - Cary
4	Cary - Washington	Charlotte - Durham
5	Durham - Washington	Greensboro - Raleigh
6	Greensboro - Washington	Durham - Greensboro
7	Charlotte - New York	Cary - Greensboro
8	New York - Raleigh	Charlotte - HighPoint
9	Charlotte - Washington	Burlington - Charlotte
10	Washington - Wilson	Charlotte - Salisbury

\*Of the ten city pairs with the highest ridership, from the previous FFY month Cary - Washington had the largest increase of 15% and Durham - Washington the largest decrease of 19% for the Carolinian; Charlotte - Salisbury had the largest increase of 43% and Durham - Greensboro the largest decrease of 15% for the Piedmont. Highlights indicate increased ridership from September 2015 for the station pairs.

## Carolinian and Piedmont Total Ons-Offs at North Carolina Stations

	FFY16 SEP	FFY15 SEP	Δ
<b>Charlotte</b>	12,274	12,026	2%
<b>Raleigh</b>	8,206	8,450	-3%
<b>Greensboro</b>	7,632	7,636	0%
<b>Durham</b>	5,673	5,995	-5%
<b>Cary</b>	4,444	4,486	-1%
<b>High Point</b>	2,155	2,381	-9%
<b>Wilson</b>	2,024	2,389	-15%
<b>Burlington</b>	1,742	1,750	0%
<b>Rocky Mount</b>	1,445	1,372	5%
<b>Salisbury</b>	1,442	1,486	-3%
<b>Kannapolis</b>	1,309	1,312	0%
<b>Selma-Smithfield</b>	589	602	-2%

\*The values represent passenger ons and offs at North Carolina stations for only state-supported routes and do not include those of other Amtrak services. The values should not be construed as total ridership.

## North Carolina Train Host Association

	FFY16 SEP	FFY16 YTD
<b>Train Host Volunteer Hours</b>	753	12,254

# Go. Reconnect.





## Public Transportation Assists Hurricane Matthew Victims

A few stories of service to others are shared in this newsletter. However, many more could be told as our transit systems rallied to help those in need by sharing vehicles, operators, additional transportation services, and words of encouragement. Heroes indeed!

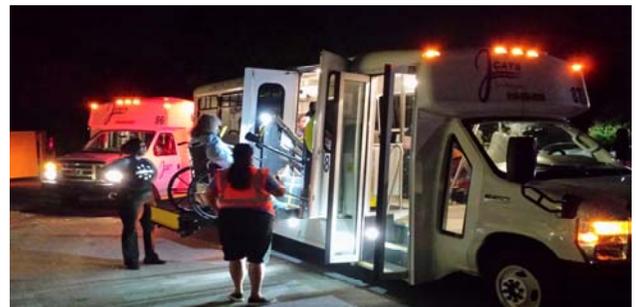
### Robeson County Disaster Recovery Center Opens to Help With Post-Hurricane Recovery Efforts

As post-hurricane recovery and relief efforts continue across eastern North Carolina, officials have opened the Robeson County Disaster Recovery Center (DRC) to serve residents in that region who suffered losses.

South East Area Transit System extended additional levels of public transportation services to residents who need to travel to the DRC and meet with FEMA personnel. Four buses were loaned to Robeson County to operate a route from the Bill Sapp Recreation Center and the Robeson County Fairgrounds shelters starting at 10 a.m. and continuing as needed.

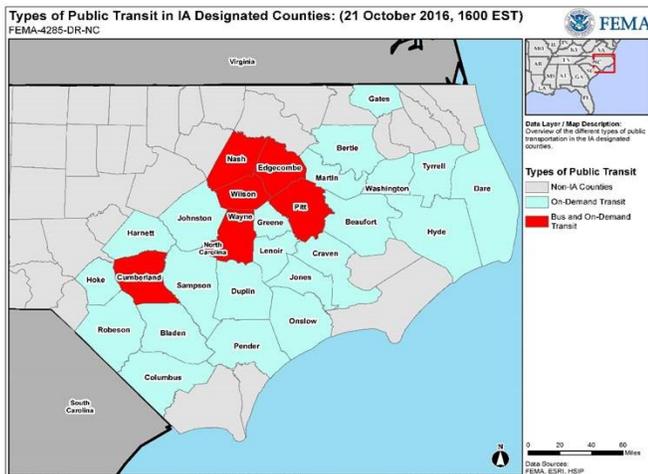
### Johnston County Area Transit System Comes to Aid of Area Residents after I-95 Evacuation

When a chemical fire on I-95 in Johnston County forced evacuations of nearby homes, businesses, and a FEMA relief center, the Johnston County Area Transit System (JCATS) assisted by helping transfer individuals to safety who were staying at the Princeton shelter. Below is a photo of JCATS staff helping with those evacuations.



### Transit Systems Stuff the Bus for Hurricane Matthew Victims

Several urban transit systems provided support by holding Stuff the Bus collections. Chapel Hill Transit, Piedmont Authority for Regional Transportation, GoRaleigh and GoTriangle all held Stuff the Bus drives to collect food and supplies for those recently impacted by Hurricane Matthew. Click [here](#) for one YouTube story.



### Goldsboro, NC Steps Up to Help

Officials in Goldsboro, NC were able to place a shelter on a bus route to make it easier for flood survivors to access grocery stores, medical appointments, and retail outlets.



## PTD Activities Underway

## What's New?

### November 2016 Activities

#### Training:

- Contracting for Construction and Design Services
- Americans with Disabilities Act
- SharePoint
- Excel

#### Meetings Attended:

- Transportation Demand Management Golden Globe Awards
- NCARPO Quarterly Meeting
- Transportation Advisory Boards
- Ferry Study Committee

#### Upcoming:

- FTA Regional Roundtable
- MTAP Annual Meeting
- NCAMPO Quarterly Meeting
- FTA Combined Review training on January 19-20, 2017

PTD's **Federal Transit Administration (FTA) Comprehensive Review** is scheduled for the week of May 22, 2017. Our Grantee Information Request and Review package is due to them by December 16, 2016. Meanwhile, PTD has added two new funding sources (FTA 5339 and 5307) to our oversight since the last review.

A discretionary **Notice of Proposed Rulemaking (NOFO)** debrief of our 5339(b) combined application is scheduled with the participating transit systems, FTA and NCDOT's Program Analysis Engineer, Burt Tasaico. The purpose of the call is to understand how to become more competitive in our quest to meet increasing vehicle replacement needs.

A **Mission Assignment (MA)** was issued to PTD and the eastern transit systems under the direction of and in coordination with FEMA, USDOT/FTA to provide temporary emergency transportation services in response/recovery operations. These services will be in impacted counties and provide public transportation to meet the needs of those in shelters and living in temporary housing. It will supplement, not replace, pre-disaster transportation and is solely for survivor transportation needs. We are so grateful to our USDOT Emergency Support Functions 1 (ESF-1) team (Leah Russell, Steve Jackson, Terry Sheehan) and FTA team (Robert Buckley, Chris White, and Dudley Whyte). Additionally, technical assistance was provided to assist in appropriate invoicing of these vital services.

#### Study activities:

- Proposals were received and reviewed by NCDOT staff to contract with consultants for work over the next three years. These awards facilitate PTD's ability to perform oversight, planning and technical assistance.
- PTD is working with DOA Purchasing and Contracts to award the contract for our Strategic Plan.



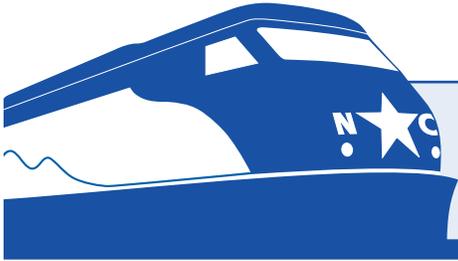
# ROAD/BRIDGE/FERRY NAMING COMMITTEE AGENDA

## BOARD OF TRANSPORTATION NOVEMBER 30, 2016

TIME: 2:15 PM

LOCATION: 160

TOPIC	PRESENTER	TIME
<b>Jim Covington, Sr.</b> – Bridge on Jimmy Kerr Road over I-40, Alamance County, Division 7 (McQueary)	Leigh Wing	5 min
<b>Herb Thomas</b> – NC 87 from the Harnett/Lee County line South to Bullard Road, Harnett County, Division 6 (Hutchens)	Leigh Wing	5 min
<b>Blue Star Highway Addition</b>	Leigh Wing	5 min
<b>Other Business</b>	Leigh Wing	5 min



## Rail Improvement Program Receives \$10 Million Funding Boost



The NCDOT Rail Division has awarded an additional \$10 million for the Freight Rail and Rail Crossing Safety Improvement program for fiscal year 2017. State officials accelerated the project selection process because several of the ranked projects involve railroads damaged by flooding from Hurricane Matthew.



*Aberdeen and Rockfish rail line west of CSX crossing near Fayetteville*

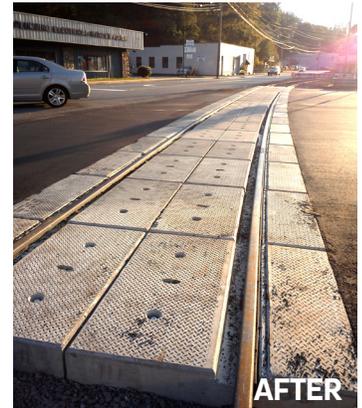
“These investments will enhance safety and improve rail infrastructure connections to economic development opportunities,” Rail Director Paul Worley said. The newly-approved funding brings the total program amount to \$13.75 million for the year.

Four shortline improvement projects were selected for funding, with half of the cost coming from state funds and the other half from private investment:

- \$1.7 million to upgrade bridges in Wake, Nash, Wilson and Beaufort counties and to replace more than 10,000 crossties over 31 miles of track in Wake, Johnston, Nash and Wilson counties. Other elements of this project include rail roadbed and crosstie replacement to accommodate heavier railcars in key areas;
- \$7.3 million to return a section of railroad to service in Columbus County between Chadbourn and Whiteville, as well as other track upgrades from Chadbourn to Tabor City and into South Carolina to connect the line to the national rail system;
- \$725,000 to replace five culverts and harden the railroad over 29 miles in Currituck, Camden and Pasquotank counties; and
- \$393,594 to build a new truck/train transload facility in Hoke County, and to replace crossties and harden the railroad for eight miles in Cumberland and Hoke counties.

Officials also approved \$500,000 for a safety improvement project in Salisbury. The project will accelerate the elimination of a highway/rail at-grade crossing at Henderson Grove Church Road by developing the right-of-way plans for a more efficient access roadway to Julian Road.

## Crossing Improvements Made in Sylva



*Chipper Curve Road*

The NCDOT Rail and Highway Divisions recently partnered with the Blue Ridge Southern Railroad (BLU) to improve two at-grade railroad crossings on BLU’s tracks in Sylva. The two crossings, Chipper Curve Road and Grindstaff Cove Road, had been deteriorating over the years and were in great need of repair due to the high volume of traffic traveling across the crossings and the number of complaints received by the NCDOT and the Railroad. The project replaced the existing surfaces with a modular concrete “tub” crossing. This particular type of crossing is a precast, reinforced concrete surface that eliminates the need for ballast, ties and railroad fasteners, therefore reducing future maintenance costs for the Railroad and creating a smoother ride for the traveling public.

BLU was responsible for the actual installations while NCDOT Division provided asphalt for the approaches and traffic control while the crossing was closed for installation. Rail Division FRRCSI funding provided \$118,000 for the crossing materials.



*Grindstaff Cove Road*





## BeRailSafe Staff promotes Rail Safety Training Opportunities at NC League of Municipalities Annual CityVision Conference

On October 23rd and 24th, BeRailSafe attended the North Carolina League of Municipalities Annual CityVision Conference in Raleigh, North Carolina. Each year, the CityVision Conference allows for representatives from municipalities across North Carolina to interact with vendors and organizations who offer a service or product that can help create a better community. BeRailSafe attended the conference to help urge municipalities to assess their rail risk, and hopefully mitigate it by signing up to have their 911 operators, firefighters, police personnel, and EMS trained to deal with a rail emergency.

In order to provide a personalized interaction with the attending representatives, BeRailSafe created a unique "Rail Safety Report" for each municipality in North Carolina. The Report highlighted key statistics, such as the miles of track within a municipality, or the number of at-grade crossings. The personalized touch was well received by all municipal representatives.

BeRailSafe made valuable connections and started important conversations with many individuals from across North Carolina, interacting with well over 100 different municipal representatives. BeRailSafe looks to engage these representatives after the conference to set up classes and training for their public officials to help mitigate their rail risk, as well as create and grow a culture of rail safety.

**Are You Rail Ready?** If EMS, 911, firefighters and police do not receive the proper training to handle rail-related emergencies, how will this affect your town?



**NCDOT  
BeRailSafe**

## Out and About with BeRailSafe, Operation Lifesaver and NC BY TRAIN

Promoting Rail Safety and NC BY TRAIN passenger train service in Safety City at the North Carolina State Fair.



Chief Deputy Secretary Walt Gray welcomes fair goers to NCDOT's Safety City as Rail Director Paul Worley looks on.



NCSU's Mr. and Mrs. Wolf pledge to BeRailSafe.



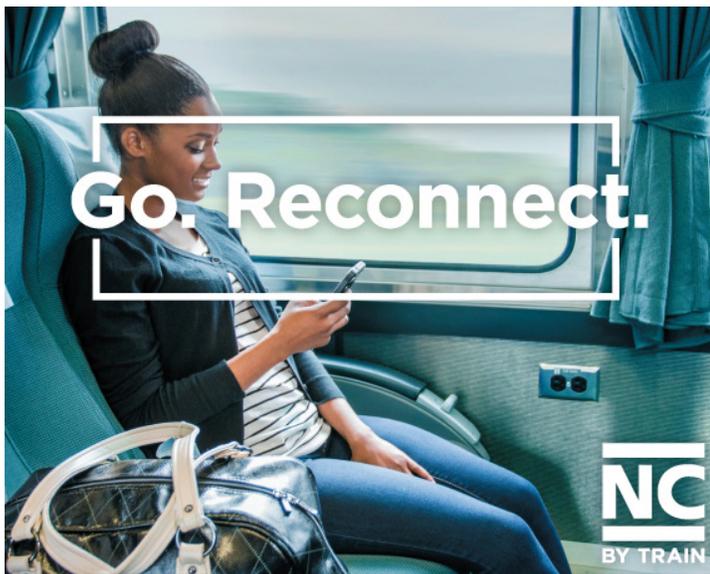
Operation Lifesaver's Margaret Cannell staffing the booth.



Mr. Moon-Asheville Tourists



BeRailSafe's Roger Smock and the Duke Blue Devil




**TransLoc®**  
Connecting public transit options  
to complete your train trip.

## NC By Train Launches Transit App Pilot Program

The Rail Division is pleased to announce the launch of a three-month pilot program that offers commuters an additional option to help get them home from the train station without using their car.

In partnership with TransLoc, a North Carolina-based transportation technology company that helps riders plan trips and tracks buses in real time, commuters will now be able to use the TransLoc application on their smart phones to plan their trip from home to the NC By Train station. Users can provide their location and find nearby transit stations, including rail, or even book an Uber ride within the app to get to their next stop.

“NCDOT is committed to finding additional ways of making riders aware of available transit options,” said Paul Worley, Rail Division Director. “The launch of this pilot program is part of our commitment to finding additional, quality ways of bridging the gap of ‘the last mile’ between the train station and your destination.”

Currently, the tool is available in the Raleigh, Cary, Durham, Burlington, Greensboro, High Point, Salisbury, Kannapolis, and Charlotte areas. Users can download the TransLoc Rider app in Apple iTunes or the Google Play store for Android users.

## Two NC Stations in Amtrak’s Top Ten in the Country for Customer Satisfaction

Once again, North Carolina made a strong showing in Customer Satisfaction Ratings for FFY 16. The Durham Station was ranked fourth nationally, scoring a 95% customer satisfaction rating. The High Point Depot ranked tenth nationally, scoring 94%.

The station in Durham is staffed by Amtrak Agents. The High Point Depot is staffed by NCDOT contract employees. Congratulations to the employees at both stations for this recognition. Your hard work and dedication is appreciated by NCDOT and Amtrak management as well as the thousands of passengers that you serve.



Durham Amtrak Station



High Point Depot

## Ridership & Revenue on NC’s Amtrak Service – \*Sept. 2016 vs. 2015

	RIDERSHIP			REVENUE		
	2016	2015	% +/-	2016	2015	% +/-
<b>Piedmont</b>	12,873	12,297	5%	\$277,919	\$259,146	7%
<b>Carolinian</b>	19,992	21,707	-8%	\$1,230,867	\$1,320,684	-7%

**753**



Hours Volunteered by N.C. Train Hosts in September, supporting NC BY TRAIN onboard and at events.

September 2016 service modifications and annulments impacted four *Piedmont* trains and six *Carolinian* trains. On September 19th, all *Piedmont* trains were annulled and *Carolinian* trains operated between New York and Raleigh only to accommodate PIP project work. On September 26th - 28th, *Carolinian* trains operated between Raleigh and Charlotte only to accommodate CSX track work. Additional disruptions for PIP project work will continue to occur as necessary through completion of the program. Average gasoline prices were approximately equal in September 2016 and September 2015 (EIA Weekly Retail Gasoline for Lower Atlantic region).

## The Rail Division Receives EPA Southeast Diesel Collaborative (SEDC) 2016 Community Leadership Award for its efforts in locomotive emissions reduction



The Rail Division was honored to receive the EPA Southeast Diesel Collaborative (SEDC) 2016 Community Leadership Award for its efforts in

locomotive emissions reduction, and intends to remain an industry leader for emissions reduction efforts. The conference was held September 28th and 29th in Savannah, GA.

The NCDOT Rail Division recognizes the need for positive stewardship to the citizens of North Carolina by minimizing air pollution caused by its passenger locomotives. The Rail Division contracts Amtrak to operate the *Piedmont* passenger rail service, which provides twice-daily round trip service between Raleigh and Charlotte. A third round trip is scheduled to begin in January 2018, which will lead to increased air pollution along the *Piedmont* corridor unless proactive measures are taken.

Furthermore all counties along the *Piedmont* corridor between Raleigh and Charlotte are identified as EPA non-attainment in one or more areas, meaning that one or more types of air pollution levels are above desired limits. Reduction of locomotive emissions is a positive step toward overall air pollution improvement.

The NCDOT Rail Division has accomplished groundbreaking efforts in locomotive emissions reduction by becoming the first rail agency in the country to implement a retrofit Tier 4 / Tier 3+ air pollution reduction system onto an in-service passenger locomotive. NCDOT recently partnered with Rail Propulsion Systems (RPS) of Fullerton, CA to design, test, and install a specialized selective catalytic reduction system, known as a blended aftertreatment system (BATS), onto NCDOT Locomotive 1859. The BATS is designed to chemically mitigate locomotive emissions prior to release into the environment.

The Rail Division's future plans include the implementation of several additional BATS subsystems that will further lower pollution to federally required levels. Additionally, the Rail Division has previously performed tests with biodiesel fuel in its locomotives and demonstrated up to 60% reduction of pollutants vs. standard locomotive ULSD fuel with no loss of fuel economy or engine performance. The Rail Division believes that a combination of the BATS plus biodiesel fuel will further reduce emissions and possibly achieve emissions levels cleaner than EPA Tier 4 for all pollutants. NCDOT and RPS are currently working to get the BATS certified with the EPA and hope to equip all F59PH locomotives in the *Piedmont* passenger service with a second generation of this BATS technology.



Curtis McDowell and Lynn Harris of McDowell Engineers & Associates stand on the BATS-equipped Locomotive 1859.

### Piedmont Improvement Program Milestones

Five major projects were placed in service the last week of October. Ribbon cutting ceremonies were held to mark the official opening of the projects:

- McLeansville Road Grade Separation
- Haw River Passing Siding Project
- Klumac Road Grade Separation
- Kimball Road Grade Separation
- Bowers to Lake Double Track Project



### McLeansville Road Grade Separation Ribbon Cutting



Haw River Passing Siding Ribbon Cutting



Klumac Road Grade Separation Ribbon Cutting



Kimball Road Grade Separation Ribbon Cutting



**Bowers to Lake Double Track Ribbon Cutting**



The Piedmont changing tracks at CP Lake near Thomasville



**Spent to Date of \$520M (eff. 10/31/2016)**

Component	Expenditure
PD&A/ROW	\$53,423,342
Equipment Procurement & Rebuild	\$31,124,315
Stations & Facilities	\$46,393,893
Track & Structures	\$302,564,443
CRISP	\$2,180,376
<b>Program Totals</b>	<b>\$435,686,369</b>

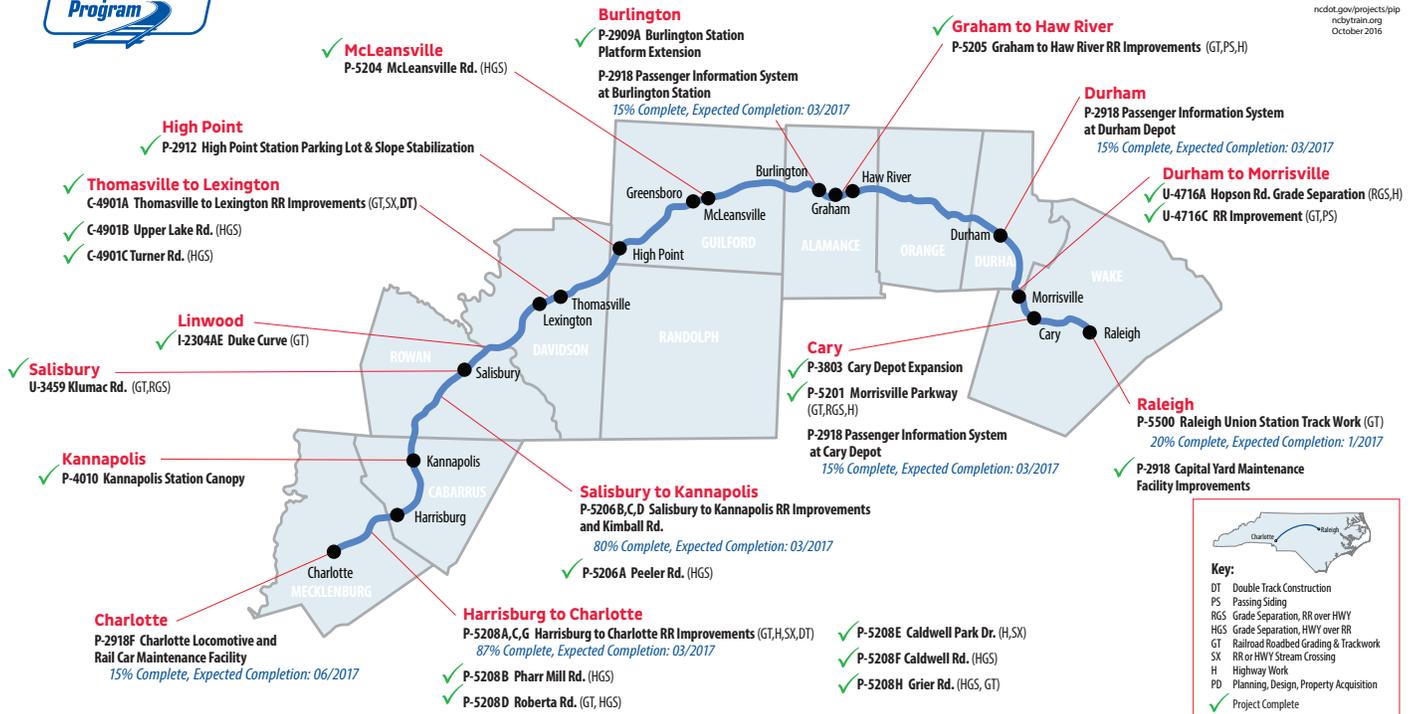
Nine new contracts totaling \$16,284,588 were awarded in October.

**Piedmont Improvement Program**

**Piedmont Improvement Program – October 2016 Status Report**



ncdot.gov/projects/ncbytrain.org  
October 2016



Note: % is NCDOT Contract Completion percentage

2 Locomotives  
60% Complete  
Expected Completion Date: 12/2016 & 1/2017



NC By Train – Piedmont Equipment ✓ 5 Locomotives ✓ 11 Railcars

2 Cab Control Units  
70% Complete  
Expected Completion Date: 12/2016 & 1/2017  
2 Additional Cab Control Units from non-ARRA Funding

## Piedmont Improvement Program – Project Photos – October 2016



P-5500 Raleigh Union Station, roadbed and station construction



P-5500 Raleigh Union Station, station construction



P-5205 Graham to Haw River passing siding completed



P-5205 Graham to Haw River passing siding completed



C-4901 Bowers to Lake double track completed



C-4901 Bowers to Lake double track completed

## Piedmont Improvement Program – Project Photos – October 2016



U-3459 Klumac Road, roadway paving



P-5206 Reid to North Kannapolis, track construction



P-5206 Reid to North Kannapolis, Kimball Road grade separation



P-5208 Haydock to Junker, McClean Road crossing



P-5208 Haydock to Junker, double track at Grier Road Bridge



P-5208 Haydock to Junker, double track, Harrisburg