



MEETING AGENDA
Monthly Meeting of the North Carolina Board of Transportation
 1 South Wilmington Street Raleigh, North Carolina 27601
October 5-6, 2016

WEDNESDAY, October 5, 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**

Tryon International Equestrian Center	Sharon Decker, Chief Operating Officer Tryon International Equestrian Center
CFO Update	David Tyeryar
Traffic Noise Policy Update	Drew Joyner
Product Evaluation Program Awareness	Jessica Kuse Natalie Roskam
Corridor K	Brian Burch
Incident Management	Meredith McDiarmid

1:00PM – 1:15PM**BREAK****1:15PM – 2:45PM**

Funding Appropriations and Strategies Committee Economic Development & Intergovernmental Relations Committee	Room 150
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2:45PM – 3:15PM

Road, Bridge, Ferry Naming Committee	Room 160
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3:15PM – 5:00PM

General Meeting Time	Various Locations
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THURSDAY, October 6, 2016

8:30AM

Location: Room 150

NORTH CAROLINA BOARD OF TRANSPORTATION MEETING

- | | |
|---|--------------------|
| • Call to Order | Chairman Curran |
| • Invocation | Andy Perkins |
| • Ethics Declaration | Chairman Curran |
| • Approval of September 8, 2016 Board Meeting Minutes | 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 1 Update	Malcom Fearing, Board Member
NCDOT Logistics and Response to recent Fuel Shortage	Emily McGraw

ACTION

Traffic Noise Policy	Chairman Curran
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Approval of Projects

- (Item G) Additions and Abandonments to State Secondary Road System
- (Item I) Public Transportation Program
 - (Item I-1A) Public Transportation
- (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 R) Right of Way Resolutions and Ordinances

Committee Reports	Chairman Curran
Other Business	
Adjourn	

PROJECTS LIST
NORTH CAROLINA BOARD OF TRANSPORTATION
RALEIGH, NORTH CAROLINA
October 5-6, 2016

Delegated Authority Secretary Tennyson

- (Item C) Award of Highway Construction Contracts from September 20, 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-2) Rail Program **(No Item this month)**
 - (Item I-3) Bicycle and Pedestrian **(No Item this month)**
 - (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 **(No Item this month)**
- (Item R) Right of Way Resolutions and Ordinances
- (Item S) Maintenance Allocations **(No Item this month)**
- (Item T) Submission of Comprehensive Transportation Plans for Mutual Adoption by the Board of Transportation **(No Item this month)**

NCDOT Board of Transportation Agenda

ITEM C

September 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.
SEPTEMBER 20, 2016
DIVISION 00003

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C203915
2017CPT.03.02.10821, 2017CPT.03.02.20821, 44735
STATE FUNDED
SAMPSON

PROPOSAL LENGTH 30.000 MILES

TYPE OF WORK MILLING, RESURFACING, WIDENING, AND SHOULDER RECONSTRUCTION.

LOCATION 1 SECTION EACH OF NC-242 & NC-411, AND 31 SECTIONS OF SECONDARY ROADS.

EST CONST PROGRESS.... FY-2017..80% OF BID
FY-2018..20% OF BID

RPN 002 2 BIDDER(S) MBE GOAL 4.00 % WBE GOAL 5.00%
ESTIMATE 3,842,886.29

DATE AVAILABLE OCT 31 2016

FINAL COMPLETION OCT 27 2017

	\$ TOTALS	% DIFF
JOHNSON BROTHERS UTILITY & PAVING COMPANY, INC. LILLINGTON, NC	3,932,441.74	+2.3
BARNHILL CONTRACTING COMPANY ROCKY MOUNT, NC	3,999,980.96	+4.1

HIGHWAY LETTING
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH N.C.
SEPTEMBER 20, 2016
DIVISION 00005

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C203791
50125.3.1
NHPP-0540(030)
WAKE
I-5710

PROPOSAL LENGTH 0.790 MILES

TYPE OF WORK RAMP METERS, WIDENING, GRADING, PAVING, RET WALL AND DRAINAGE

LOCATION I-540 FROM SR-1839 (LEESVILLE ROAD) TO SR-2000 (FALLS OF THE NEUSE ROAD) IN RALEIGH.

EST CONST PROGRESS.... FY-2017..87% OF BID
FY-2018..13% OF BID

RPN 003 3 BIDDER(S) DBE GOAL 6.00 %

ESTIMATE 2,903,598.14

DATE AVAILABLE OCT 31 2016

INTER COMPLETION SEP 15 2017 COMPLETE ALL WORK EXCEPT PLANTING, REFORESTATION, OR PERMANENT VEGETATION ESTABLISHMENT

FINAL COMPLETION MAR 14 2018

	\$ TOTALS	% DIFF
S T WOOTEN CORPORATION WILSON, NC	2,501,311.75	-13.9
FSC II LLC DBA FRED SMITH COMPANY RALEIGH, NC	2,613,500.00	-10.0
TRIANGLE GRADING & PAVING INC BURLINGTON, NC	2,982,052.95	+2.7

HIGHWAY LETTING
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH N.C.
SEPTEMBER 20, 2016
DIVISION 00005

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C203866
52007.3.1
NHPP-0085(13)
DURHAM
I-5729

PROPOSAL LENGTH 5.610 MILES

TYPE OF WORK PAVEMENT REHABILITATION.

LOCATION I-85 FROM US-15/501 TO EAST OF SR-1827 (MIDLAND TERRACE RD) IN DURHAM.

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

RPN 004 1 BIDDER(S) DBE GOAL 11.00 %

ESTIMATE 5,879,068.69

DATE AVAILABLE MAR 01 2017

FINAL COMPLETION NOV 01 2017

	\$ TOTALS	% DIFF
FSC II LLC DBA FRED SMITH COMPANY RALEIGH, NC	7,543,502.68	+28.3

HIGHWAY LETTING
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH N.C.
SEPTEMBER 20, 2016
DIVISION 00006

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*RELET FROM 7/19/2016

* C203917
33727.3.FS1
BRNHS-0024(24)
CUMBERLAND
B-4490

PROPOSAL LENGTH 0.649 MILES

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

LOCATION BRIDGE #116 OVER CSX RAILROAD AND HILLSBORO ST ON NC-24/210.

EST CONST PROGRESS.... FY-2017..32% OF BID
FY-2018..37% OF BID
FY-2019..25% OF BID
FY-2020..06% OF BID

RPN 005 4 BIDDER(S) DBE GOAL 10.00 %
ESTIMATE 22,301,554.50

DATE AVAILABLE NOV 01 2016

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

FINAL COMPLETION MAY 13 2020

	\$ TOTALS	% DIFF
S T WOOTEN CORPORATION WILSON, NC	24,309,140.31	+9.0
FSC II LLC DBA FRED SMITH COMPANY RALEIGH, NC	24,983,664.65	+12.0
BARNHILL CONTRACTING COMPANY ROCKY MOUNT, NC	26,242,377.29	+17.7
UNITED INFRASTRUCTURE GROUP INC GREAT FALLS, SC	26,470,467.21	+18.7

JULY 19, 2016 LETTING

33727.3.FS1
BRNHS-0024(24)
CUMBERLAND
B-4490
RPN 003

GRADING, DRAINAGE, PAVING, SIGNALS AND STRUCTURES.

DATE AVAILABLE NOV 1 2016
FINAL COMPLETION MAY 13 2020

ENGINEER'S ESTIMATE

\$20,668,719.50

	\$ TOTALS	% DIFF
ST WOOTEN CORPORATION WILSON, NC	25,232,140.73	+22.1
W.C. ENGLISH, INCORPORATED LYNCHBURG, VA	27,394,979.38	+32.5
BARNHILL CONTRACTING COMPANY ROCKY MOUNT, NC	27,652,779.86	+33.8

SEPTEMBER 20, 2016 LETTING

33727.3.FS1
BRNHS-0024(24)
CUMBERLAND
B-4490
RPN 005

GRADING, DRAINAGE, PAVING, SIGNALS AND STRUCTURES.

DATE AVAILABLE NOV 1 2016
FINAL COMPLETION MAY 13 2020

ENGINEER'S ESTIMATE

\$22,301,554.50

	\$ TOTALS	% DIFF
ST WOOTEN CORPORATION WILSON, NC	24,309,140.31	+9.0
FSC II LLC DBA FRED SMITH COMPANY RALEIGH, NC	24,983,664.65	+12.0
BARNHILL CONTRACTING COMPANY ROCKY MOUNT, NC	26,242,377.29	+17.7
UNITED INFRASTRUCTURE GROUP INC GREAT FALLS, SC	26,470,467.21	+18.7

HIGHWAY LETTING
 NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 RALEIGH N.C.
 SEPTEMBER 20, 2016
 DIVISION 00007

C203792
 34820.3.30
 NHF-0708(53)
 GUILFORD
 U-2524D

PROPOSAL LENGTH 1.873 MILES

TYPE OF WORK GRADING, DRAINAGE, PAVING, ITS, SIGNALS & STRUCTURES.

LOCATION GREENSBORO WESTERN LOOP - FROM US-220 (BATTLEGROUND AVENUE) TO SR-2303 (LAWNDALE DRIVE).

EST CONST PROGRESS.... FY-2017..26% OF BID
 FY-2018..33% OF BID
 FY-2019..25% OF BID
 FY-2020..16% OF BID

RPN 001 8 BIDDER(S) DBE GOAL 13.00 %
 ESTIMATE 64,700,890.90

DATE AVAILABLE OCT 31 2016

INTER COMPLETION JUL 01 2020 COMPLETE ALL WORK EXCEPT PLANTING, REFORESTATION, OR PERMANENT VEGETATION ESTABLISHMENT.

FINAL COMPLETION DEC 28 2020

	\$ TOTALS	% DIFF
FLATIRON CONSTRUCTORS, INC. BLYTHE DEVELOPMENT CO JOINT VENT BF	57,956,530.84	-10.4
VECELLIO & GROGAN INC BECKLEY, WV	62,899,796.85	-2.8
BRANCH HIGHWAYS, INC. ROANOKE, VA	65,867,281.18	+1.8
BLYTHE CONSTRUCTION, INC. CHARLOTTE, NC	66,211,298.19	+2.3
THALLE CONSTRUCTION CO., INC. HILLSBOROUGH, NC	67,449,296.92	+4.2
DRAGADOS USA INC NEW YORK, NY	67,659,463.98	+4.6
THE LANE CONSTRUCTION CORPORATION CHESHIRE, CT	68,359,994.27	+5.7
W. C. ENGLISH, INCORPORATED LYNCHBURG, VA	74,919,194.89	+15.8

HIGHWAY LETTING
 NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 RALEIGH N.C.
 SEPTEMBER 20, 2016
 DIVISION 00007

C203872
 53058.3.1
 NHPIM-0085(9)123
 GUILFORD
 I-5854

PROPOSAL LENGTH 3.713 MILES

TYPE OF WORK PAVEMENT REHABILITATION.

LOCATION I-85 FROM 0.3 MILES NORTH OF I-85 BUSINESS TO SR-3300 (SOUTH ELM EUGENE STREET)
 IN GREENSBORO.

EST CONST PROGRESS.... FY-2017..52% OF BID
 FY-2018..46% OF BID
 FY-2019..02% OF BID

RPN 007 2 BIDDER(S) DBE GOAL 9.00 %
 ESTIMATE 5,788,711.43

DATE AVAILABLE OCT 31 2016

FINAL COMPLETION AUG 01 2018

	\$ TOTALS	% DIFF
PENHALL COMPANY ANAHEIM, CA	5,297,043.64	-8.5
TRIANGLE GRADING & PAVING INC BURLINGTON, NC	6,324,725.11	+9.3

ESTIMATE TOTAL	107,153,727.95	
LETTING TOTAL	103,065,474.04	-3.8

**NCDOT October 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

Technical Services

Project Development and Environmental Analysis

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

STATEWIDE

Description of Work:	2015 Planning and Design LSC
Firm:	Dewberry Engineers, Inc., Raleigh, NC
Original Engineering Fee:	\$1,500,000.00
Supplemental Fee:	\$ 500,000.00
SPSF Utilization:	EEE Consulting, Inc. \$50,000.00 10%
DBE/WBE/SPSF Utilization:	Falcon Engineering, Inc. \$25,000.00 5%
SPSF Utilization:	Patriot Transportation Engineering, PLLC \$30,000.00 6%
DBE/WBE/SPSF Utilization:	Planning Communities, LLC \$60,000.00 12%
SPSF Utilization:	Ramey Kemp & Associates, Inc. \$25,000.00 5%

Project Development and Environmental Analysis – Human Environment

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 the Human Environment Section's Limited English Proficiency Services on an as needed basis for various federal-aid and state funded projects. These contracts will expire two years (with two annual extensions possible) after the date of execution or after the contract amount has been depleted, whichever occurs first. Our staff has completed the actions for employing private firms in accordance with the policies and procedures adopted by the Board on May 7, 2009. These are for information only.

STATEWIDE

Description of Work: 2016 Limited English Proficiency LSC
Firm: Three Oaks Engineering, Inc., Durham, NC
Maximum Engineering Fee: \$250,000.00
DBE/WBE/SPSF Utilization: 100%

Description of Work: 2016 Limited English Proficiency LSC
Firm: SpanishSpeaking LLC, Winston-Salem, NC
Maximum Engineering Fee: \$500,000.00
SPSF Utilization: 100%

Description of Work: 2016 Limited English Proficiency LSC
Firm: Neighborhood Solutions, LLC, Winston-Salem, NC
Maximum Engineering Fee: \$300,000.00
DBE/MBE/SPSF Utilization: 100%

Description of Work: 2016 Limited English Proficiency LSC
Firm: Mott MacDonald I&E LLC, Fuquay-Varina, NC
Maximum Engineering Fee: \$200,000.00
SPSF Utilization: 0%

Description of Work: 2016 Limited English Proficiency LSC
Firm: MM/I and Associates, LLC, Raleigh, NC
Maximum Engineering Fee: \$250,000.00
DBE/MBE/SPSF Utilization: 100%

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

STATEWIDE

Description of Work: 2012 Limited English Proficiency LSC
Firm: SpanishSpeaking LLC, Winston-Salem, NC
Original Engineering Fee: \$400,000.00
Supplemental Fee: \$ 54,000.00
SPSF Utilization: 100%

Roadway Design

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

DIVISION 2

Project:	46015.1.1 (B-5301) Pitt County Bridge No 87 over Norfolk Southern Railroad on NC 33
Scope of Work:	Roadway and Hydraulic Design
Estimated Construction Cost:	\$2,150,000.00
Firm:	Sepi Engineering & Construction, Inc., Raleigh, NC
Original Engineering Fee:	\$42,254.47
Previous Supplemental Fee:	\$27,818.27
Supplemental Fee:	\$45,724.72
Supplemental Work:	Alignment had to be moved to keep existing traffic open while constructing the new bridge
SPSF Utilization:	0%

Chief Engineer

Divisions 5, 7, 8, and 9

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 Divisions 5, 7, 8, and 9 Planning and Design Limited Services on an as needed basis for various federal-aid and state funded projects to support Divisions 5, 7, 8, and 9. These contracts will expire two years, with an optional 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.

Description of Work:	2016 Divisions 5, 7, 8, and 9 Planning and Design LSC	
Firm:	The Nau Company, PLLC, Rolesville, NC	
Maximum Engineering Fee:	\$5,000,000.00	
SPSF Utilization:	100%	

Description of Work:	2016 Divisions 5, 7, 8, and 9 Planning and Design LSC	
Firm:	HNTB of North Carolina, PC, Raleigh, NC	
Maximum Engineering Fee:	\$5,000,000.00	
SPSF Utilization:	Axiom Environmental, Inc.	\$50,000.00
	1%	
DBE/WBE/SPSF Utilization:	CH Engineering, PLLC	\$100,000.00
	2%	
SPSF Utilization:	Carolina Land Acquisitions, Inc.	\$50,000.00
	1%	
SPSF Utilization:	Environmental Services, Inc.	\$50,000.00
	1%	
DBE/MBE/SPSF Utilization:	MA Engineering Consultants, Inc.	\$100,000.00
	2%	
DBE/SPSF Utilization:	MI Engineering, PLLC	\$50,000.00
	1%	
SPSF Utilization:	So-Deep US, PC	\$100,000.00
	2%	

October 6, 2016

Description of Work:	2016 Divisions 5, 7, 8, and 9 Planning and Design LSC	
Firm:	TGS Engineers, Shelby, NC	
Maximum Engineering Fee:	\$5,000,000.00	
SPSF Utilization:	100%	
Description of Work:	2016 Divisions 5, 7, 8, and 9 Planning and Design LSC	
Firm:	WSP PB, Raleigh, NC	
Maximum Engineering Fee:	\$5,000,000.00	
SPSF Utilization:	Carolina Ecosystems, Inc.	\$150,000.00
	3%	
SPSF Utilization:	Utility Coordination Consultants	\$150,000.00
	3%	
SPSF Utilization:	Commonwealth Heritage Group, Inc.	\$100,000.00
	2%	
DBE/WBE/SPSF Utilization:	Morton & Morton Design Services, PLLC	\$50,000.00
	1%	
Description of Work:	2016 Divisions 5, 7, 8, and 9 Planning and Design LSC	
Firm:	Michael Baker Engineering, Inc., Cary, NC	
Maximum Engineering Fee:	\$5,000,000.00	
SPSF Utilization:	Sungate Design Group, PA	\$500,000.00
	10%	
SPSF Utilization:	Davis-Martin-Powell & Associates, Inc.	\$250,000.00
	5%	
SPSF Utilization:	Patriot Transportation Engineering, PLLC	\$250,000.00
	5%	
DBE/WBE/SPSF Utilization:	Dovetail Cultural Resource Group, Inc.	\$100,000.00
	2%	
Description of Work:	2016 Divisions 5, 7, 8, and 9 Planning and Design LSC	
Firm:	STV Engineers, Inc., Charlotte, NC	
Maximum Engineering Fee:	\$5,000,000.00	
DBE/WBE/SPSF Utilization:	Calyx Engineers and Consultants, Inc.	\$1,000,000.00
	20%	
DBE/WBE/SPSF Utilization:	Falcon Engineering, Inc.	\$100,000.00
	2%	
SPSF Utilization:	Progressive Design Group, Inc.	\$150,000.00
	3%	
Description of Work:	2016 Divisions 5, 7, 8, and 9 Planning and Design LSC	
Firm:	HDR Engineering Inc. of the Carolinas, Raleigh, NC	
Maximum Engineering Fee:	\$5,000,000.00	
DBE/WBE/SPSF Utilization:	CH Engineering, PLLC	\$250,000.00
	5%	
SPSF Utilization:	Carolina Land Acquisitions, Inc.	\$50,000.00
	1%	

SPSF Utilization:	Clearbox Forecast Group PLLC 3%	\$150,000.00
SPSF Utilization:	Hinde Engineering, Inc. 3%	\$150,000.00
DBE/WBE/SPSF Utilization:	Planning Communities LLC 3%	\$150,000.00
Description of Work:	2016 Divisions 5, 7, 8, and 9 Planning and Design LSC	
Firm:	Stewart, Raleigh, NC	
Maximum Engineering Fee:	\$5,000,000.00	
SPSF Utilization:	100%	
Description of Work:	2016 Divisions 5, 7, 8, and 9 Planning and Design LSC	
Firm:	RS&H Architects-Engineers-Planners, Inc., Charlotte, NC	
Maximum Engineering Fee:	\$5,000,000.00	
SPSF Utilization:	Carolina Ecosystems, Inc. 3%	\$150,000.00
DBE/WBE/SPSF Utilization:	Planning Communities LLC 4%	\$200,000.00
SPSF Utilization:	So-Deep US, PC 3%	\$150,000.00
SPSF Utilization:	Angler Environmental 2%	\$100,000.00
SPSF Utilization:	Commonwealth Heritage Group, Inc. 2%	\$100,000.00
Description of Work:	2016 Divisions 5, 7, 8, and 9 Planning and Design LSC	
Firm:	VHB Engineering NC PC, Raleigh, NC	
Maximum Engineering Fee:	\$5,000,000.00	
SPSF Utilization:	Commonwealth Heritage Group, Inc. 1%	\$50,000.00
DBE/WBE/SPSF Utilization:	Falcon Engineering, Inc. 1%	\$50,000.00
DBE/SPSF Utilization:	MI Engineering, PLLC 5%	\$250,000.00
DBE/MBE/SPSF Utilization:	Neighborhood Solutions LLC 1%	\$50,000.00
SPSF Utilization:	Sungate Design Group, PA 5%	\$250,000.00
SPSF Utilization:	TGS Engineers 9%	\$450,000.00
SPSF Utilization:	So-Deep US, PC 4%	\$200,000.00

Description of Work:	2016 Divisions 5, 7, 8, and 9 Planning and Design LSC	
Firm:	Vaughn & Melton Consulting Engineers, Asheville, NC	
Maximum Engineering Fee:	\$5,000,000.00	
DBE/WBE/SPSF Utilization:	Wetherill Engineering, Inc.	\$500,000.00
	10%	
SPSF Utilization:	Parrish and Partners of North Carolina, PLLC	\$100,000.00
	2%	
SPSF Utilization:	Environmental Corporation of North Carolina, Inc.	\$100,000.00
	2%	
Description of Work:	2016 Divisions 5, 7, 8, and 9 Planning and 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 Divisions 5, 7, 8, and 9 Planning and Design LSC	
Firm:	Wetherill Engineering, Inc., Raleigh, NC	
Maximum Engineering Fee:	\$5,000,000.00	
DBE/WBE/SPSF Utilization:	100%	
Description of Work:	2016 Divisions 5, 7, 8, and 9 Planning and Design LSC	
Firm:	Rummel Klepper & Kahl LLP, Raleigh, NC	
Maximum Engineering Fee:	\$5,000,000.00	
DBE/WBE/SPSF Utilization:	Falcon Engineering, Inc.	\$200,000.00
	4%	
DBE/MBE/SPSF Utilization:	Accelerate Engineering PLLC	\$100,000.00
	2%	
DBE/WBE/SPSF Utilization:	New South Associates, Inc.	\$50,000.00
	1%	
DBE/MBE/SPSF Utilization:	MM/I and Associates, LLC	\$50,000.00
	1%	
DBE/WBE/SPSF Utilization:	CH Engineering, PLLC	\$100,000.00
	2%	
Description of Work:	2016 Divisions 5, 7, 8, and 9 Planning and Design LSC	
Firm:	CH Engineering, PLLC, Raleigh, NC	
Maximum Engineering Fee:	\$5,000,000.00	
DBE/WBE/SPSF Utilization:	100%	

Description of Work:	2016 Divisions 5, 7, 8, and 9 Planning and Design LSC	
Firm:	Kimley-Horn & Associates, Inc., Raleigh, NC	
Maximum Engineering Fee:	\$5,000,000.00	
DBE/WBE/SPSF Utilization:	New South Associates, Inc.	\$100,000.00
	2%	
DBE/WBE/SPSF Utilization:	CH Engineering, PLLC	\$200,000.00
	4%	
DBE/WBE/SPSF Utilization:	Wetherill Engineering, Inc.	\$300,000.00
	6%	
SPSF Utilization:	Carolina Land Acquisitions, Inc.	\$100,000.00
	2%	

Description of Work:	2016 Divisions 5, 7, 8, and 9 Planning and Design LSC	
Firm:	Calyx Engineers and Consultants Inc., Raleigh, NC	
Maximum Engineering Fee:	\$5,000,000.00	
DBE/WBE/SPSF Utilization:	100%	

Description of Work:	2016 Divisions 5, 7, 8, and 9 Planning and Design LSC	
Firm:	H.W. Lochner, Inc., Raleigh, NC	
Maximum Engineering Fee:	\$5,000,000.00	
DBE/WBE/SPSF Utilization:	CH Engineering, PLLC	\$250,000.00
	5%	
SPSF Utilization:	Commonwealth Heritage Group, Inc.	\$50,000.00
	1%	
DBE/WBE/SPSF Utilization:	Ecological Engineering, LLP	\$400,000.00
	8%	
DBE/WBE/SPSF Utilization:	Falcon Engineering, Inc.	\$200,000.00
	4%	
DBE/MBE/SPSF Utilization:	Mekuria Engineering, Inc.	\$100,000.00
	2%	
DBE/MBE/SPSF Utilization:	MM/I and Associates, LLC	\$50,000.00
	1%	
DBE/MBE/SPSF Utilization:	Simpson Engineers & Associates PC	\$200,000.00
	4%	
SPSF Utilization:	So-Deep US, PC	\$200,000.00
	4%	
SPSF Utilization:	Sungate Design Group, PA	\$250,000.00
	5%	

Description of Work:	2016 Divisions 5, 7, 8, and 9 Planning and Design LSC	
Firm:	Ramey Kemp & Associates, Inc., Raleigh, NC	
Maximum Engineering Fee:	\$5,000,000.00	
SPSF Utilization:	100%	

Description of Work:	2016 Divisions 5, 7, 8, and 9 Planning and Design LSC	
Firm:	KCI Associates of North Carolina PC, Raleigh, NC	
Maximum Engineering Fee:	\$5,000,000.00	
DBE/WBE/SPSF Utilization:	Planning Communities LLC	\$1,250,000.00
	25%	
DBE/WBE/SPSF Utilization:	Ecological Engineering, LLP	\$750,000.00
	15%	

Description of Work:	2016 Divisions 5, 7, 8, and 9 Planning and Design LSC	
Firm:	Parsons Transportation Group, Raleigh, NC	
Maximum Engineering Fee:	\$5,000,000.00	
DBE/WBE/SPSF Utilization:	Three Oaks Engineering, Inc.	\$350,000.00
	7%	
SPSF Utilization:	Sungate Design Group, PA	\$250,000.00
	5%	
SPSF Utilization:	Hinde Engineering, Inc.	\$200,000.00
	4%	
SPSF Utilization:	So-Deep US, PC	\$250,000.00
	5%	
SPSF Utilization:	Carolina Land Acquisitions, Inc.	\$100,000.00
	2%	

Description of Work:	2016 Divisions 5, 7, 8, and 9 Planning and Design LSC	
Firm:	Dewberry Engineers, Inc., Raleigh, NC	
Maximum Engineering Fee:	\$5,000,000.00	
DBE/WBE/SPSF Utilization:	CH Engineering, PLLC	\$250,000.00
	5%	
DBE/MBE/SPSF Utilization:	Davenport	\$250,000.00
	5%	
SPSF Utilization:	Patriot Transportation Engineering, PLLC	\$200,000.00
	4%	
DBE/WBE/SPSF Utilization:	Planning Communities LLC	\$200,000.00
	4%	

Description of Work:	2016 Divisions 5, 7, 8, and 9 Planning and Design LSC	
Firm:	Mott MacDonald I&E LLC, Fuquay-Varina, NC	
Maximum Engineering Fee:	\$5,000,000.00	
DBE/MBE/SPSF Utilization:	Accelerate Engineering PLLC	\$50,000.00
	1%	
SPSF Utilization:	Axiom Environmental, Inc.	\$150,000.00
	3%	
DBE/WBE/SPSF Utilization:	Dovetail Cultural Resource Group, Inc.	\$50,000.00
	1%	
DBE/WBE/SPSF Utilization:	Falcon Engineering, Inc.	\$100,000.00
	2%	

DBE/WBE/Utilization:	O.R.Colan Group LLC 1%	\$50,000.00
DBE/MBE/SPSF Utilization:	Simpson Engineers & Associates PC 5%	\$250,000.00
DBE/WBE/SPSF Utilization:	Wetherill Engineering, Inc. 5%	\$250,000.00
Description of Work:	2016 Divisions 5, 7, 8, and 9 Planning and Design LSC	
Firm:	Summit Design and Engineering Services, PLLC, Hillsborough, NC	
Maximum Engineering Fee:	\$5,000,000.00	
SPSF Utilization:	100%	
Description of Work:	2016 Divisions 5, 7, 8, and 9 Planning and Design LSC	
Firm:	Sepi Engineering & Construction, Inc., Raleigh, NC	
Maximum Engineering Fee:	\$5,000,000.00	
DBE/WBE/SPSF Utilization:	New South Associates, Inc. 1%	\$50,000.00
DBE/MBE/SPSF Utilization:	Davenport 2%	\$100,000.00
DBE/MBE/SPSF Utilization:	Neighborhood Solutions LLC 1%	\$50,000.00
Description of Work:	2016 Divisions 5, 7, 8, and 9 Planning and Design LSC	
Firm:	Stantec Consulting Services, Inc., Raleigh, NC	
Maximum Engineering Fee:	\$5,000,000.00	
DBE/WBE/SPSF Utilization:	Anne Morris and Associates, LLC 1%	\$50,000.00
DBE/WBE/SPSF Utilization:	Falcon Engineering, Inc. 2%	\$100,000.00
DBE/MBE/SPSF Utilization:	Mekuria Engineering, Inc. 1%	\$50,000.00
DBE/SPSF Utilization:	MI Engineering, PLLC 2%	\$100,000.00
SPSF Utilization:	Patriot Transportation Engineering, PLLC 1%	\$50,000.00
SPSF Utilization:	So-Deep US, PC 2%	\$100,000.00
DBE/WBE/SPSF Utilization:	Wetherill Engineering, Inc. 2%	\$100,000.00

Description of Work:	2016 Divisions 5, 7, 8, and 9 Planning and Design LSC	
Firm:	ICA Engineering, Inc., Raleigh, NC	
Maximum Engineering Fee:	\$5,000,000.00	
DBE/WBE/SPSF Utilization:	CH Engineering, PLLC	\$250,000.00
	5%	
SPSF Utilization:	Alpha & Omega Group PC	\$250,000.00
	5%	

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

DIVISION 7

Project:	34418.3.5 (R-2309AB) Guilford County 34429.3.7 (R-2413C) Guilford County US 220 (combined with R-2413C) from SR 2182 (Horsepen Creek Rd.) to 0.2 mile north of SR 2313 (Winfree Road) and US 220 / Future I-73 from the Haw River to NC 68 / US 220 Intersection (combined with R- 2309AB)	
Scope of Work:	Construction Engineering and Inspection Services	
Estimated Construction Cost:	\$96,195,464.51	
Firm:	Volkert, Inc. Raleigh, NC	
Original Engineering Fee:	\$7,000,000.00	
Supplemental Fee:	\$2,200,000.00	
Supplemental Work:	Additional CEI Services	
SPSF Utilization:	Summit Design and Engineering Services, PLLC	
	\$990,000.00	
	45%	

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

STATEWIDE

Description of Work:	2014-2016 CEI LSC	
Firm:	Campo & Associates, PLLC, Kannapolis, NC	
Original Engineering Fee:	\$10,000,000.00	
Supplemental Fee:	\$ 5,000,000.00	
SPSF Utilization:	TGS Engineers, Inc.	\$500,000.00
	10%	

Description of Work:	2014-2016 CEI LSC	
Firm:	DRMP, Inc., Charlotte, NC	
Original Engineering Fee:	\$10,000,000.00	
Supplemental Fee:	\$ 5,000,000.00	
DBE/MBE/SPSF Utilization:	Bree & Associates, Inc.	\$1,000,000.00
	20%	

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Description of Work: 2014-2016 CEI LSC
Firm: KCI Associates of North Carolina PC, Raleigh, NC
Original Engineering Fee: \$10,000,000.00
Previous Supplemental Fee: \$ 5,000,000.00
Supplemental Fee: \$ 5,000,000.00
SPSF Utilization: 0%

Description of Work: 2014-2016 CEI LSC
Firm: Rummel, Klepper & Kahl, LLP, Raleigh, NC
Original Engineering Fee: \$10,000,000.00
Previous Supplemental Fee: \$10,000,000.00
Supplemental Fee: \$10,000,000.00
SPSF Utilization: F&ME Consultants, Inc. \$500,000.00
5%
DBE/WBE/SPSF Utilization: OLH, Inc. \$500,000.00
5%

Description of Work: 2014-2016 CEI LSC
Firm: Sepi Engineering & Construction, Inc., Raleigh, NC
Original Engineering Fee: \$10,000,000.00
Previous Supplemental Fee: \$10,000,000.00
Supplemental Fee: \$10,000,000.00
SPSF Utilization: 0%

Description of Work: 2014-2016 CEI LSC
Firm: Summit Design and Engineering Services, PLLC,
Hillsborough, NC
Original Engineering Fee: \$10,000,000.00
Previous Supplemental Fee: \$ 5,000,000.00
Supplemental Fee: \$10,000,000.00
SPSF Utilization : 100%

Description of Work: 2014-2016 CEI LSC
Firm: Vaughn & Melton Consulting Engineers, Asheville, NC
Original Engineering Fee: \$10,000,000.00
Previous Supplemental Fee: \$5,000,000.00
Supplemental Fee: \$5,000,000.00
SPSF Utilization: 0%

Description of Work: 2014-2016 CEI LSC
Firm: Volkert, Inc., Raleigh, NC
Original Engineering Fee: \$10,000,000.00
Previous Supplemental Fee: \$ 5,000,000.00
Supplemental Fee: \$10,000,000.00
SPSF Utilization: 0%

Divisions 1, 2, 3, 4, and 6

Description of Work: Divisions 1, 2, 3, 4, and 6 Planning and Design LSC
Firm: HDR Engineering, Inc., of the Carolinas, Raleigh, NC
Original Engineering Fee: \$3,000,000.00
Supplemental Fee: \$2,000,000.00
SPSF Utilization: Hinde Engineering, Inc. \$100,000.00
5%
SPSF Utilization: Joyner Keeny, PLLC \$40,000.00
2%
SPSF Utilization: Patriot Transportation Engineering, PLLC \$80,000.00
4%
DBE/WBE/SPSF Utilization: Planning Communities, LLC \$60,000.00
3%
SPSF Utilization: Ramey Kemp & Associates, Inc. \$100,000.00
5%

Description of Work: Divisions 1, 2, 3, 4, and 6 Planning and Design LSC
Firm: HNTB of North Carolina, PC, Raleigh, NC
Original Engineering Fee: \$3,000,000.00
Supplemental Fee: \$4,000,000.00
SPSF Utilization: Carolina Land Acquisitions, Inc. \$200,000.00
5%
SPSF Utilization: Environmental Services, Inc. \$200,000.00
5%
DBE/MBE/SPSF Utilization: MA Engineering Consultants, Inc. \$200,000.00
5%
DBE/SPSF Utilization: MI Engineering, PLLC \$200,000.00
5%
SPSF Utilization: So-Deep US, PC \$200,000.00
5%

Description of Work: Divisions 1, 2, 3, 4, and 6 Planning and Design LSC
Firm: Michael Baker Engineering, Inc., Cary, NC
Original Engineering Fee: \$3,000,000.00
Supplemental Fee: \$4,500,000.00
SPSF Utilization: Sungate Design Group, PA \$675,000.00
15%
SPSF Utilization: Hinde Engineering, Inc. \$90,000.00
2%
SPSF Utilization: Ramey Kemp & Associates, Inc. \$90,000.00
2%
SPSF Utilization: Southeastern Right of Way, LLC \$90,000.00
2%
DBE/WBE/SPSF Utilization: Dovetail Cultural Resource Group, Inc. \$90,000.00
2%

Description of Work: Divisions 1, 2, 3, 4, and 6 Planning and Design LSC
Firm: RS&H Architects-Engineers-Planners, Inc., Charlotte, NC
Original Engineering Fee: \$3,000,000.00
Supplemental Fee: \$1,000,000.00
SPSF Utilization: Carolina Ecosystems, Inc. \$25,000.00
2.5%
DBE/WBE/SPSF Utilization: Planning Communities, LLC \$50,000.00
5%
SPSF Utilization: So-Deep US, PC \$25,000.00
2.5%
SPSF Utilization: Commonwealth Heritage Group, Inc. \$20,000.00
2%

Description of Work: Divisions 1, 2, 3, 4, and 6 Planning and Design LSC
Firm: Stantec Consulting Services, Inc., Raleigh, NC
Original Engineering Fee: \$3,000,000.00
Supplemental Fee: \$2,000,000.00
DBE/WBE/SPSF Utilization: Falcon Engineering, Inc. \$40,000.00
2%
SPSF Utilization: Patriot Transportation Engineering, PLLC \$20,000.00
1%
DBE/WBE/SPSF Utilization: Anne Morris and Associates, LLC \$20,000.00
1%
SPSF Utilization: So-Deep US, PC \$40,000.00
2%
DBE/MBE/SPSF Utilization: Mekuria Engineering, Inc. \$20,000.00
1%
DBE/WBE/SPSF Utilization: Wetherill Engineering, Inc. \$40,000.00
2%
DBE/SPSF Utilization: MI Engineering, PLLC \$40,000.00
2%

Description of Work: Divisions 1, 2, 3, 4, and 6 Planning and Design LSC
Firm: Wetherill Engineering, Inc., Raleigh, NC
Original Engineering Fee: \$3,000,000.00
Supplemental Fee: \$4,000,000.00
DBE/WBE/SPSF Utilization: 100%

Description of Work: Divisions 1, 2, 3, 4, and 6 Planning and Design LSC
Firm: SEPI Engineering & Construction, Inc., Raleigh, NC
Maximum Engineering Fee: \$3,000,000.00
Supplemental Fee: \$2,000,000.00
DBE/MBE/SPSF Utilization: Neighborhood Solutions, LLC \$40,000.00
2%

Description of Work: Divisions 1, 2, 3, 4, and 6 Planning and Design LSC
Firm: Calyx Engineers and Consultants, Inc., Raleigh, NC
Maximum Engineering Fee: \$3,000,000.00
Supplemental Fee: \$2,000,000.00
DBE/WBE/SPSF Utilization: 100%

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Description of Work: Divisions 1, 2, 3, 4, and 6 Planning and Design LSC
Firm: CDM Smith, Inc., Raleigh, NC
Maximum Engineering Fee: \$3,000,000.00
Supplemental Fee: \$1,000,000.00
SPSF Utilization: Carolina Land Acquisitions, Inc. \$10,000.00
1%
SPSF Utilization: Environmental Services, Inc. \$30,000.00
3%
SPSF Utilization: So-Deep US, PC \$30,000.00
3%
DBE/MBE/SPSF Utilization: Simpson Engineers & Associates, PC \$30,000.00
3%
DBE/WBE/SPSF Utilization: Morton & Morton Design Services, PLLC \$10,000.00
1%
SPSF Utilization: Summit Design and Engineering Services, PLLC
\$150,000.00
15%
DBE/SPSF Utilization: MI Engineering, PLLC \$50,000.00
5%

Description of Work: Divisions 1, 2, 3, 4, and 6 Planning and Design LSC
Firm: STV Engineers, Inc., Charlotte, NC
Maximum Engineering Fee: \$3,000,000.00
Supplemental Fee: \$1,000,000.00
DBE/WBE/SPSF Utilization: Calyx Engineers & Consultants, Inc. \$200,000.00
20%
DBE/WBE/SPSF Utilization: Falcon Engineering, Inc. \$50,000.00
5%

Description of Work: Divisions 10-14 Planning and Design LSC
Firm: MA Engineering Consultants, Inc., Cary, NC
Original Engineering Fee: \$3,000,000.00
Supplemental Fee: \$1,000,000.00
DBE/MBE/SPSF Utilization: 100%

Description of Work: Divisions 10-14 Planning and Design LSC
Firm: Calyx Engineers and Consultants, Inc., Raleigh, NC
Original Engineering Fee: \$3,000,000.00
Supplemental Fee: \$2,000,000.00
DBE/WBE/SPSF Utilization: 100%

Description of Work: Divisions 10-14 Planning and Design LSC
Firm: DRMP, Inc., Charlotte, NC
Maximum Engineering Fee: \$3,000,000.00
Supplemental Fee: \$1,000,000.00
DBE/WBE/SPSF Utilization: Three Oaks Engineering, Inc. \$30,000.00
3%
DBE/WBE/SPSF Utilization: Chipley Consulting, LLC \$20,000.00
2%
SPSF Utilization: Donal Simpson, FAIA, AICP \$20,000.00
4%

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SPSF Utilization: Environmental Services, Inc. \$30,000.00
3%

SPSF Utilization: Hinde Engineering, Inc. \$50,000.00
5%

SPSF Utilization: Sungate Design Group, PA \$100,000.00
10%

Description of Work: Divisions 10-14 Planning and Design LSC
Firm: HNTB of North Carolina, PC, Raleigh, NC
Maximum Engineering Fee: \$3,000,000.00
Supplemental Fee: \$3,000,000.00
SPSF Utilization: Commonwealth Heritage Group, Inc. \$30,000.00
1%

DBE/WBE/SPSF Utilization: Three Oaks Engineering, Inc. \$90,000.00
3%

DBE/MBE/SPSF Utilization: MA Engineering Consultants, Inc. \$150,000.00
5%

SPSF Utilization: Carolina Land Acquisitions, Inc. \$30,000.00
1%

Description of Work: Divisions 10-14 Planning and Design LSC
Firm: RS&H Architects-Engineers-Planners, Inc., Charlotte, NC
Original Engineering Fee: \$3,000,000.00
Supplemental Fee: \$2,000,000.00
SPSF Utilization: Carolina Ecosystems, Inc. \$60,000.00
3%

SPSF Utilization: Progressive Design Group, Inc. \$60,000.00
3%

DBE/WBE/SPSF Utilization: Planning Communities, LLC \$60,000.00
3%

SPSF Utilization: Commonwealth Heritage Group, Inc. \$60,000.00
3%

Description of Work: Divisions 10-14 Planning and Design LSC
Firm: Rummel, Klepper & Kahl, LLP, Raleigh, NC
Original Engineering Fee: \$3,000,000.00
Supplemental Fee: \$2,000,000.00
DBE/WBE/SPSF Utilization: Falcon Engineering, Inc. \$100,000.00
5%

SPSF Utilization: Ramey & Kemp Associates, Inc. \$20,000.00
1%

DBE/WBE/SPSF Utilization: New South Associates, Inc. \$20,000.00
1%

DBE/MBE/SPSF Utilization: MM/I and Associates, LLC \$20,000.00
1%

Description of Work: Divisions 10-14 Planning and Design LSC
Firm: Stantec Consulting Services, Inc., Raleigh, NC
Original Engineering Fee: \$3,000,000.00
Supplemental Fee: \$2,000,000.00
SPSF Utilization: Patriot Transportation Engineering, PLLC \$80,000.00
4%

October 6, 2016

DBE/WBE/SPSF Utilization:	Falcon Engineering, Inc. \$80,000.00 4%
DBE/WBE/SPSF Utilization:	Anne Morris and Associates, LLC \$20,000.00 1%
Description of Work:	Divisions 10-14 Planning and Design LSC
Firm:	Stewart, Raleigh, NC
Original Engineering Fee:	\$3,000,000.00
Supplemental Fee:	\$1,000,000.00
SPSF Utilization:	100%
Description of Work:	Divisions 10-14 Planning and Design LSC
Firm:	STV Engineers, Inc., Charlotte, NC
Original Engineering Fee:	\$3,000,000.00
Supplemental Fee:	\$3,000,000.00
DBE/WBE/SPSF Utilization:	Chipleigh Consulting, LLC \$150,000.00 5%
DBE/WBE/SPSF Utilization:	Ecological Engineering, LLP \$150,000.00 5%
DBE/WBE/SPSF Utilization:	New South Associates, Inc. \$150,000.00 5%
SPSF Utilization:	Progressive Design Group, Inc. \$150,000.00 5%
Description of Work:	Divisions 10-14 Planning and Design LSC
Firm:	TGS Engineers, Shelby, NC
Original Engineering Fee:	\$3,000,000.00
Supplemental Fee:	\$3,000,000.00
SPSF Utilization:	100%
Description of Work:	Divisions 10-14 Planning and Design LSC
Firm:	Vaughn & Melton Consulting Engineers, Asheville, NC
Original Engineering Fee:	\$3,000,000.00
Supplemental Fee:	\$3,000,000.00
DBE/WBE/SPSF Utilization:	Wetherill Engineering, Inc. \$240,000.00 8%
SPSF Utilization:	Mattern & Craig, Inc. \$60,000.00 2%
SPSF Utilization:	Environmental Corporation of North Carolina, Inc. \$60,000.00 2%
Description of Work:	Divisions 10-14 Planning and Design LSC
Firm:	Wetherill Engineering, Inc., Raleigh, NC
Maximum Engineering Fee:	\$3,000,000.00
Supplemental Fee:	\$3,000,000.00
DBE/WBE/SPSF Utilization:	100%

Description of Work:	Divisions 10-14 Planning and Design LSC
Firm:	WSP USA CORP, Cary, NC
Original Engineering Fee:	\$3,000,000.00
Supplemental Fee:	\$2,000,000.00
SPSF Utilization:	Commonwealth Heritage Group, Inc. \$100,000.00 5%
DBE/WBE/SPSF Utilization:	Chipley Consulting, LLC \$100,000.00 5%
DBE/WBE/SPSF Utilization:	Falcon Engineering, Inc. \$100,000.00 5%
DBE/WBE/SPSF Utilization:	Morton & Morton Design Services, PLLC \$60,000.00 3%

Transit

Rail

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 Rail Consulting and Facilitation Services on an as needed basis for various federal-aid and state funded projects to support the Rail Division. These contracts will expire August 31, 2019 or after the contract amount has been depleted, whichever occurs first. Our staff has completed the actions for employing private firms in accordance with the policies and procedures adopted by the Board on May 7, 2009. This is for information only.

STATEWIDE

Description of Work:	2016 Rail Consulting and Facilitation Services LSC
Firm:	Eckel & Vaughan, LLC, Raleigh, NC
Maximum Engineering Fee:	\$2,000,000.00
SPSF Utilization:	100%

Description of Work:	2016 Rail Consulting and Facilitation Services LSC
Firm:	Fountainworks, Inc., Raleigh, NC
Maximum Engineering Fee:	\$2,000,000.00
SPSF Utilization:	Lyerly Agency, Inc. \$400,000.00 20%

Description of Work:	2016 Rail Consulting and Facilitation Services LSC
Firm:	Simpson Engineers & Associates, PC, Cary, NC
Maximum Engineering Fee:	\$2,000,000.00
DBE/MBE/SPSF Utilization :	100%

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

Project:	49999.1.STR24 Wake County
Description of Work:	Public Information Display Systems (PIDS) Bidding and Construction Administration Services PIDS at Three NC Train Stations
Firm:	David E. Gall, Architect, PA, Winston-Salem, NC
Original Engineering Fee:	\$ 456,291.91
Previous Supplemental Fee:	\$ 308,398.49
Supplemental Fee:	\$ 248,043.89
Supplemental Work:	Construction Administration
DBE/MBE/SPSF Utilization:	Simpson Engineers & Associates, PC \$30,240.28 12%

Planning & Programming

Feasibility Studies

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

STATEWIDE

Description of Work:	2015 Feasibility Studies LSC
Firm:	RK&K, LLP, Raleigh, NC
Original Supplemented Engineering Fee:	\$500,000.00
Supplemental Fee:	\$170,000.00
SPSF Utilization:	0%

NCDOT October 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 2329 Spencer Dixon Road	Turn Lane Construction. WBS 7C.041255	\$20,000.00
Caldwell Div. 11	SR 1848 Blueberry Drive	GDB&P. WBS 11C.014097	\$287,571.43
Caldwell Div. 11	SR 1890 Blue Dove Lane	GDB&P. WBS 11C.014096	\$141,000.00

Deletions

County	SR No.	Reason	Amount
Currituck Div. 1	SR 1217 Cooper Garrett Road	GDB&P. Unavailable Right of Way. WBS 1C.027071	-\$119,929.91

October 2016 Item E Summary:

3	Projects to Establish Funds	Amount:	\$448,571.43
1	Projects to Delete	Amount:	-\$119,929.91

NCDOT October 2016 Board of Transportation Agenda

Road Additions:

County	Pet. No.	Length (Miles)	Description	Date of Report
Division 2				
Craven	51187		Quail Woods Subdivision	7/28/16
		0.48	Quail Woods Drive	
		0.25	Covey Court	
		0.40	Finch Lane	
Division 5				
Franklin	51188		Winston Ridge Subdivision	7/28/16
		0.09	Scarlette Bell Drive	
		0.06	Meadowrue Lane	
		0.09	Hawthorne Lane	
Division 6				
Harnett	51189		Colonial Hills Subdivision	8/2/16
		0.24	Colonial Hills Drive, SR 2239 Ext.	
		0.08	Kingston Drive	
		0.04	Belmont Court	
		0.04	Tory Court	
		0.12	Downing Court	
Division 7				
Guilford	51190		Hearthridge Subdivision	7/19/16
		0.15	Hearthridge Court	
Guilford	51191		Turner North Subdivision	8/9/16
		0.07	Deer Stand Court	
		0.06	Turner North Court	
		0.43	Turner North Drive	
Rockingham	51192		Twin Creeks Subdivision	5/19/16
		0.51	Twin Creeks Drive, SR 1231 Ext.	
		0.06	Stoney Ridge Court	
Rockingham	51193		Glenn Farm Estates Subdivision	4/22/16
		0.09	Glenoak Drive	
		0.56	Glenrobin Drive	
		0.07	Glencove Drive	
		0.44	Glendale Circle	
Division 9				
Davidson	51194		Sunset Knolls Subdivision	9/8/16
		0.03	James Street	

October 6, 2016

NCDOT October 2016 Board of Transportation Agenda

Road Additions:

County	Pet. No.	Length (Miles)	Description	Date of Report
Division 10 Union	51195	0.36 0.25 0.10	Weddington Trace Subdivision Oleander Lane Yellowhorn Trail Smoketree Court	7/15/16
Division 12 Iredell	51196	0.33	Bethany Place Subdivision Albany Drive	9/7/16
Division 13 Buncombe	51197	0.03 0.03 0.05	Bee Tree Village Cliffside Subdivision Nectar Way Golden Harvest Trail Bee Tree Way	6/28/16
Division 14 Cherokee	51198	0.15	Line Drive	7/8/16

Deletions:

County	Pet. No.	Length (Miles)	Description	Date of Report
Division 3 Onslow	51199	0.12	Portion of SR 1529 Harbor Point Road	8/10/16
Division 12 Cleveland	51200	0.60	SR 2515 Stadium Drive	9/1/16
Division 13 Buncombe	51201	0.39	SR 1124 Cole Cove Road	7/20/16

Corrections: Division 9 - Forsyth County – Petition Number 51154 should not have been listed on the August 2016 BOT Agenda.

Summary: **Number of Roads Petitioned for Addition – 30**
 Number of Roads Petitioned for Abandonment – 3

October 6, 2016

NCDOT OCTOBER 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 Dare	Town of Southern Shores – WBS 44788 was established (06/16) for installation of new storm drainage culverts under NC-12 and construction of storm water retention basin in southeast quadrant of NC-12 and East Dogwood Ln Increase funds	Contingency <hr/> TOTAL	\$100,000.00 <hr/> \$100,000.00
Div 3 Onslow	Relocate utilities on Bluetop Rd to bring up to minimum maintenance standards WBS 44979	Contingency <hr/> TOTAL	\$30,000.00 <hr/> \$30,000.00
Div 6 Robeson	Grade, drain, base, & pave bus/motorcycle testing area at Lumberton DMV facility WBS 44980	Contingency <hr/> TOTAL	\$119,250.00 <hr/> \$119,250.00
Div 9 Davie	Installation of right and left turn lanes on Baltimore Rd at plant entrance WBS 44971	Public Access Econ Development <hr/> TOTAL	\$150,000.00 \$400,000.00 <hr/> \$550,000.00
Div 12 Cleveland	Install turn lanes at Pinnacle Classical Academy and an interim temporary signal at the intersection of NC-180 and SR 2201/2202 (Joe's Lake Rd) WBS 44981	Contingency <hr/> TOTAL	\$350,000.00 <hr/> \$350,000.00

Deletions:

Div 9, Rowan County – WBS 43894 was established (05/13) for a Planning and Environmental Study for a new interchange on I-85 at the future relocated SR 1221 (Old Beatty Ford Rd);
Funded by an alternate source

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

Summary:	Number of Projects	5	
	Number of Divisions	5	
	Small Construction Commitment		\$0.00
	Public Access Commitment		\$150,000.00
	Contingency Commitment		\$599,250.00
	Economic Development		\$400,000.00
	TOTAL		\$1,149,250.00

NCDOT October 2016 Board of Transportation Agenda

Public Transportation Program

**Town/County
Division**

Project Description

**Estimated
Cost**

There will be no items presented for approval at the October 6, 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.

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-4719	Goldsboro Wayne Transportation Authority	Operating Assistance	FUZ	5307	420	420	420	420	420	420	420
			SMAP	S	210	210	210	210	210	210	210
			Local	L	210	210	210	210	210	210	210
		CONTINUED			FY23 (000)						
			FUZ	5307	420						
			SMAP	S	210						
			Local	L	210						

Item I-1A, 1 Projects, Total Federal/State funds \$5,040,000

NCDOT October 2016 Board of Transportation Agenda

Rail Program

**Town/County
Division**

Project Description

**Estimated
Cost**

There will be no items presented for approval at the October 6, 2016 Board of Transportation meeting.

ITEM I-2 SUMMARY – NO PROJECTS

NCDOT October 2016 Board of Transportation Agenda

Bike & Pedestrian Program

**Town/County
Division**

Project Description

**Estimated
Cost**

There will be no items presented for approval at the October 6, 2016 Board of Transportation meeting.

ITEM I-3 SUMMARY – NO PROJECTS

NCDOT October 2016 Board of Transportation Agenda

Aviation Division

**Town/County
Division**

Project Description

**Estimated
Cost**

There will be no items presented for approval at the October 6, 2016 Board of Transportation meeting.

ITEM I-4 SUMMARY – NO PROJECTS

NCDOT October 2016 Board of Transportation Agenda J-1
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
Carteret Co. Div. 2 R-3307 REGIONAL	WBS 34528.2.1 US 70 from four lanes at Radio Island to US 70 north of Beaufort near SR 1429 (Olga Road). \$5,516,818.00 has previously been approved for right of way and utilities. Funds need to be decreased (\$369,025.25). WBS will be closed. This is a Strategic Transportation Investments Transition project.	-\$369,025.25
Henderson Co. Div. 14 R-5524D DIVISION	WBS 45817.3.4 Construct new access road into Ferncliff Industrial Park. \$765,687.00 has previously been approved for construction. Additional funds are requested.	\$250,000.00
ITEM J SUMMARY	2 PROJECTS	-\$119,025.25

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

Town/ County Division PROJ. CATEGORY	Project Description	Estimated Cost
Tyrrell Co. Div. 1 B-5936 STATEWIDE	WBS 46478.3.1 Bridge #7 over Alligator River on US 64. Initial funds are requested for construction.	\$9,900,000.00
Statewide Div. 2 M-0488G REGIONAL	WBS 46404.1.16 Greenville Southwest Bypass - Map Act Lawsuit. Initial funds are requested for preliminary engineering / legal services.	\$200,000.00
Statewide Div. 3 M-0488C REGIONAL	WBS 46404.1.15 Hampstead Bypass - Map Act Lawsuit. Initial funds are requested for preliminary engineering / legal services.	\$200,000.00
Johnston Co. Div. 4 R-5769 DIVISION	WBS 46448.3.1 SR 1913 (Gordon Road) from US 70 Business to proposed NOVO Nordisk facility. Various roadway improvements including new access road. Initial funds are requested for construction.	\$6,900,000.00
Statewide Div. 6 M-0488E REGIONAL	WBS 46404.1.11 I-295, Fayetteville Outer Loop - Map Act Lawsuit. Initial funds are requested for preliminary engineering / legal services.	\$200,000.00

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

Town/ County Division PROJ. CATEGORY	Project Description	Estimated Cost
Statewide Div. 7 M-0488L REGIONAL	WBS 46404.1.12 Greensboro Western Loop Map Act lawsuit. Initial funds are requested for preliminary engineering / legal services.	\$200,000.00
Statewide Div. 7 M-0488M REGIONAL	WBS 46404.1.13 Greensboro Eastern Loop Map Act lawsuit. Initial funds are requested for preliminary engineering / legal services.	\$200,000.00
Statewide Div. 9 M-0488I REGIONAL	WBS 46404.1.9 Winston-Salem Northern Beltway Map Act Lawsuit. Initial funds are requested for preliminary engineering / legal services.	\$200,000.00
Statewide Div. 9 M-0488J REGIONAL	WBS 46404.1.10 Winston-Salem Northern Beltway Eastern Section Map Act lawsuit. Initial funds are requested for preliminary engineering / legal services.	\$200,000.00
Anson Co. Div. 10 R-5708 REGIONAL	WBS 46380.3.1 US 74 at intersection of US 74 and SR 1714 (Stanback Ferry Road). Initial funds are requested for construction.	\$1,200,000.00

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

Town/ County Division PROJ. CATEGORY	Project Description	Estimated Cost
Kannapolis/ Cabarrus Co. Div. 10 U-3440 REGIONAL	WBS 39010.1.R2 NC 3 from proposed West Side Bypass (Project U-2009) to SR 1691 (Loop Road). \$3,109,139.00 has previously been approved for preliminary engineering. Additional funds are requested. This is a Strategic Transportation Investments Transition project.	\$300,000.00
Huntersville/ Mecklenburg Co. Div. 10 U-5114 REGIONAL	WBS 42376.2.1 Intersection of US 21 and Gilead Road. Construct intersection improvements, including bicycle and pedestrian accommodations. Initial funds are requested for full right of way. This is a Strategic Transportation Investments Transition project.	\$3,350,000.00
Huntersville/ Mecklenburg Co. Div. 10 U-5114 REGIONAL	WBS 42376.2.2 Intersection of US 21 and Gilead Road. Construct intersection improvements, including bicycle and pedestrian accommodations. Initial funds are needed for utilities. This is a Strategic Transportation Investments Transition project.	\$775,000.00
Statewide Div. 12 M-0488A REGIONAL	WBS 46404.1.14 Shelby Bypass - Map Act Lawsuit. Initial funds are requested for preliminary engineering / legal services.	\$200,000.00
Statewide M-0515 STATEWIDE	WBS 46880.2.1 Review of Local Public Agency (LPA) projects by the appraisal section. Initial funds are requested for right of way associated with the review of local public agency (LPA) projects by the appraisal section.	\$250,000.00

STATEWIDE STRATEGIC TRANSPORTATION INVESTMENTS	2 PROJECTS	\$10,150,000.00
REGIONAL STRATEGIC TRANSPORTATION INVESTMENTS	12 PROJECTS	\$7,225,000.00
DIVISION STRATEGIC TRANSPORTATION INVESTMENTS	1 PROJECT	\$6,900,000.00
STRATEGIC TRANSPORTATION INVESTMENTS	15 PROJECTS	\$24,275,000.00

October 6, 2016

**NCDOT October 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
Currituck Co. Div. 1 R-2576 SW/DIV	WBS 34470.2.1 Mid-Currituck Bridge from Coinjock to Corolla. \$6,938,076.00 has previously been approved for appraisal and advanced acquisition of specific parcels. Funds are requested for appraisal of Specific Parcel 903 using Division Tier funding.	\$25,000.00
Wilmington/ New Hanover Co. Div. 3 U-4751 STATEWIDE	WBS 40191.2.1 SR 1409 (Military Cutoff Road Extension) from SR 1409 (Military Cutoff Road) to US 17 in Wilmington. \$55,050,000.00 has previously been approved for acquisition of specific parcels. Additional funds are requested.	\$3,500,000.00
Stanly Co. Div. 10 R-2530B REGIONAL	WBS 34446.1.6 NC 24 - 27 from Bird Road in Albemarle to west of the Pee Dee River. \$906,668.00 has previously been approved for preliminary engineering. Additional funds are requested.	\$620,000.00
TRUST FUND INTRASTATE SUMMARY	3 PROJECTS	\$4,145,000.00

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

K-5

Town/ County Division PROJ. CATEGORY	Project Description	Estimated Cost
Greensboro/ Guilford Co. Div. 7 U-2525C STATEWIDE	WBS 34821.1.5 Greensboro Eastern Loop from US 29 north of Greensboro to SR 2303 (Lawndale Drive). \$1,615,000.00 has previously been approved for preliminary engineering. Additional funds are requested.	\$410,000.00
TRUST FUND URBAN LOOP	1 PROJECT	\$410,000.00
STRATEGIC TRANSPORTATION INVESTMENTS	15 PROJECTS	\$24,275,000.00
TRUST FUND INTRASTATE SUMMARY	3 PROJECTS	\$4,145,000.00
TRUST FUND URBAN LOOP	1 PROJECT	\$410,000.00
SUMMARY OF FUNDS	19 PROJECTS	\$28,830,000.00

October 6, 2016

**NCDOT October 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

Town/ County Division PROJ. CATEGORY	Project Description	Estimated Cost
Durham/ Durham Co. Div. 5 SS-4905CO	WBS 44321.3.1 US 15-501 Business (Mangum Street) at SR 1365 (Morehead Avenue). \$28,000.00 in construction funds has previously been approved for traffic signal revisions. Additional funds are needed due to an increase in construction costs. File 05-14-1248-1	\$32,000.00
Durham/ Durham Co. Div. 5 SS-4905DU	WBS 44932.3.1 US 70 Business (Hillsborough Road) at US 15-501 Southbound ramp. Initial construction funds are needed for turn lane installation. File 05-15-6714C	\$117,000.00
Durham/ Durham Co. Div. 5 SS-4905DU	WBS 44932.2.1 US 70 Business (Hillsborough Road) at US 15-501 Southbound ramp. Initial right of way and utilities funds are needed for turn lane installation. File 05-15-6714R	\$3,000.00
Wake Co. Div. 5 SS-4905DT	WBS 44931.3.1 SR 1163 (Kelly Road) at US 64 Eastbound. Initial construction funds are needed for traffic signal and pavement marking revisions. File 05-15-8126-2C	\$10,000.00
Chatham Co. Div. 8 SS-4908BB	WBS 44807.3.1 SR 1731 (O'Kelly Chapel Road) between NC 751 and SR 1732 (Pittard Sears Road). \$62,000.00 in construction funds has previously been approved for rumble strips installation. Additional funds are needed due to an increase in construction costs. File 08-16-0149-1	\$18,000.00

October 6, 2016

**NCDOT October 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**

Town/ County Division PROJ. CATEGORY	Project Description	Estimated Cost
Jackson Co. Div. 14 SS-4914CN	WBS 44771.3.1 SR 1359 (River Road) from US 23-441 to NC 116 near Sylva. \$90,000.00 in construction funds has previously been approved for guardrail installation. Additional funds are needed due to an increase in construction costs. File 14-16-203-2	\$60,000.00
ITEM L SUMMARY	6 PROJECTS	\$240,000.00

October 6, 2016

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

Division 2

Bicycle and Pedestrian

Town/ County/PROJ CATEGORY	Project Description	Estimated Cost
Greenville/ Pitt Co. EB-5539 DIVISION	45529.3.F1, TCSP-0220(064) South Tar River Greenway, Phase 3, Pitt Street toward Moye Boulevard in the vicinity of Pitt Memorial Hospital. Construction funds are needed for South Tar River Greenway. This is a Strategic Transportation Investments Transition project.	\$722,400.00 Cost \$577,920.00 Fed. \$144,480.00 Local

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

Division 3

Enhancement

Town/ County/PROJ CATEGORY	Project Description	Estimated Cost
Duplin Co. ER-5600CA REGIONAL	46305.3.18, STP-0332(063) US Highway 117 at the Faison Town Hall. Funds are needed for construction for landscaping.	\$64,423.00 Cost \$51,538.00 Fed. \$12,885.00 State

Safety

Brunswick Co. W-5601DA STATEWIDE	50138.3.106, HSIP-0017(153) US 17 and SR 1357 (Smith Avenue). Construction funds are needed for safety improvements.	\$100,000.00 Cost \$90,000.00 Fed. \$10,000.00 State
New Hanover Co. SS-4903CO DIVISION	44933.1.1, HSIP-1272(006) SR 1272 (New Centre Drive) and Dapple Court (Non-System). Funds are needed for preliminary engineering.	\$15,038.00 Cost \$13,534.00 Fed. \$1,504.00 State
Onslow Co. SS-4903CP DIVISION	44934.1.1, HSIP-1119(008) SR 1119 (High Hill Road). Funds are needed for preliminary engineering.	\$3,500.00 Cost \$3,150.00 Fed. \$350.00 State

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

Division 3 (Continued)

Safety

Town/ County/PROJ CATEGORY	Project Description	Estimated Cost
Onslow Co. SS-4903CR STATEWIDE	44970.1.1, HSIP-0024(080) NC 24 and SR 1509 (Queens Creek Road). Funds are needed for preliminary engineering.	\$3,625.00 Cost \$3,263.00 Fed. \$362.00 State
Onslow Co. W-5203L DIVISION	45333.3.12, HRRR-1519(005) SR 1519 (Old Folkstone Road). Construction funds are needed for safety improvements.	\$1,210,000.00 Cost \$1,089,000.00 Fed. \$121,000.00 State
Onslow Co. W-5203W STATEWIDE	45333.3.FS23, HSIP-0017(137) US 17 at SR 1327 (Kellum Loop Road) and SR 1410 (Halltown Road). Construction funds are needed for safety improvements.	\$1,061,000.00 Cost \$954,900.00 Fed. \$106,100.00 State
Sampson Co. SS-4903CQ REGIONAL	44969.1.1, HSIP-0013(065) US 13 and US 421 / NC 242. Funds are needed for preliminary engineering.	\$5,325.00 Cost \$4,793.00 Fed. \$532.00 State

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

Division 3 (Continued)

Rural

Town/ County/PROJ CATEGORY	Project Description	Estimated Cost
New Hanover Co. R-4436CG REGIONAL	34625.2.59, STP-0132(010) Construction of two (2) filtration basins to improve water quality along NC 132 (College Road) at the crossing of Hewlett's Creek in New Hanover County. \$55,000 has previously been approved for construction. Reduce Funds. Project will not be constructed due to impact by the City of Wilmington multi-use path. Funding will not be needed, WBS 34625.2.59 to be closed.	-\$55,000.00 Cost -\$44,000.00 Fed. -\$11,000.00 State

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

Division 4

Bridge

Town/ County/PROJ CATEGORY	Project Description	Estimated Cost
Halifax Co. B-5660 DIVISION	45615.2.1, BRZ-1100(036) Replace Bridge #65 over Deep Creek on SR 1100 (Combined with B-5657: Replace Bridge #15 over Beaverdam Swamp on SR 1001), (Combined with B-5658: Replace #126 over Big Peachtree Creek on SR 1310). Initial funds are needed for right of way. This is a Design-Build Project.	\$198,000.00 Cost \$158,400.00 Fed. \$39,600.00 State
Halifax Co. B-5660 DIVISION	45615.3.1, BRZ-1100(036) Replace Bridge #65 over Deep Creek on SR 1100 (Combined with B-5657: Replace Bridge #15 over Beaverdam Swamp on SR 1001), (Combined with B-5658: Replace #126 over Big Peachtree Creek on SR 1310). Funds are needed for construction based on the estimate from the 12-Month Tentative Letting List published on August 17, 2016. This is a Design-Build Project.	\$3,850,000.00 Cost \$3,080,000.00 Fed. \$770,000.00 State

Safety

Halifax Co. / Nash Co. SS-4904DZ REGIONAL	44956.1.1, HSIP-0097(042) NC 97 at SR 1001 (Old Bailey Highway) in Nash County; and NC 4 / 48 at NC 4 / 561 in Halifax County. Funds are needed for preliminary engineering.	\$3,000.00 Cost \$2,700.00 Fed. \$300.00 State
Johnston Co. SS-4904DV REGIONAL	44935.1.1, HSIP-0096(023) NC 96 at SR 1178 (Keen Road). Funds are needed for preliminary engineering.	\$5,000.00 Cost \$4,500.00 Fed. \$500.00 State

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

Division 4 (Continued)

Safety

Town/ County/PROJ CATEGORY	Project Description	Estimated Cost
Johnston Co. SS-4904DY REGIONAL	44938.1.1, HSIP-0042(071) 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.) Funds are needed for preliminary engineering.	\$14,500.00 Cost \$13,050.00 Fed. \$1,450.00 State
Nash Co. SS-4904DU REGIONAL	44957.1.1, HSIP-0048(008) NC 48 between 0.06 mile south and 0.31 mile north of SR 1536 (Boseman Road), a length of 0.37 mile; and SR 1173 (Honeycutt Street) between US 301 and 0.10 mile southeast of US 301, a length of 0.10 mile. Funds are needed for preliminary engineering.	\$10,600.00 Cost \$9,540.00 Fed. \$1,060.00 State
Wayne Co. SS-4904DW DIVISION	44936.1.1, HSIP-1958(006) SR 1958 (Bennetts Bridge Road) between the Duplin County Line and 0.27 mile north of the Duplin County Line, a length of 0.27 mile. Funds are needed for preliminary engineering.	\$35,000.00 Cost \$31,500.00 Fed. \$3,500.00 State
Wayne Co. SS-4904DX REGIONAL	44937.1.1, HSIP-0111(024) Four signalized intersections on NC 111 between NC 581 and Southeast Drive. Funds are needed for preliminary engineering.	\$15,000.00 Cost \$13,500.00 Fed. \$1,500.00 State

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

Division 4 (Continued)

Safety

Town/ County/PROJ CATEGORY	Project Description	Estimated Cost
Wayne Co. W-5601HK REGIONAL	50138.3.220, HSIP-0581(029) NC 581 at SR 1342 (Memorial Church Road). Construction funds are needed for safety improvements.	\$51,000.00 Cost \$45,900.00 Fed. \$5,100.00 State

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

Division 5

Interstate

Town/ County/PROJ CATEGORY	Project Description	Estimated Cost
Granville Co. I-5843 STATEWIDE	53049.3.1, NHPP-0085(016) I-85 north of NC 56 in Granville County to US 158 in Vance County. Construction funds are needed for structure and signing rehabilitation.	\$3,155,000.00 Cost \$2,524,000.00 Fed. \$631,000.00 State

Congestion Mitigation

Durham Co. C-5572 EXEMPT	46401.3.1, CMS-0505(075) West Ellerbe Creek Greenway, Construction Phase II, Westover Park to Stadium Drive Rail in Durham. Construction funds are needed for multi-use path.	\$1,352,000.00 Cost \$1,081,600.00 Fed. \$270,400.00 Local
Wake Co. C-5164 EXEMPT	46229.3.F1, CMS-0527(010) Smith and Sanford Creek Greenway. Funds are needed for construction for greenway and sidewalks.	\$1,200,000.00 Cost \$600,000.00 Fed. \$600,000.00 Local
Wake Co. C-5604JA EXEMPT	43714.1.6, CMAQ-0510(009) Utley Creek Greenway Connection - Town of Holly Springs. Funds are needed for preliminary engineering.	\$89,000.00 Cost \$71,200.00 Fed. \$17,800.00 Local

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

Division 5 (Continued)

Enhancement

Town/ County/PROJ CATEGORY	Project Description	Estimated Cost
Wake Co. ER-5600EA DIVISION	46305.3.26, STP-0064(188) Landscape planting and enhancement for US 64 Business and Wendell Falls Parkway at US 64. Funds are needed for construction for landscape.	\$100,000.00 Cost \$80,000.00 Fed. \$20,000.00 State

Urban

Wake Co. U-5118AF DIVISION	42379.3.31, STPDA-0501(036) Kelly Road at Olive Chapel Road. Funds are needed for construction for operational improvements and a sidewalk.	\$424,800.00 Cost \$339,840.00 Fed. \$84,960.00 Local
Wake Co. U-5530NA DIVISION	44111.3.10, TAPDA-0517(012) Research Triangle Park (RTP) / Morrisville Davis Drive Trail (RTF). Funds are needed for construction for a multi-use trail.	\$1,650,000.00 Cost \$990,000.00 Fed. \$660,000.00 Local

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

Division 5 (Continued)

Safety

Town/ County/PROJ CATEGORY	Project Description	Estimated Cost
Durham Co. SS-4905DU REGIONAL	44932.1.1, HSIP-0070(203) US 70 Business (Hillsborough Road) at US 15-501 Southbound Ramp. Funds are needed for preliminary engineering.	\$20,000.00 Cost \$18,000.00 Fed. \$2,000.00 State
Wake Co. SS-4905DW DIVISION	44941.1.1, HSIP-1959(006) SR 1959 (Miami Boulevard) at SR 1954 (Ellis Road). Funds are needed for preliminary engineering.	\$2,500.00 Cost \$2,250.00 Fed. \$250.00 State
Durham Co. SS-4905DY DIVISION	44943.1.1, HSIP-1118(009) SR 1118 (Fayetteville Road) at Cook Road / Hillside High School. Funds are needed for preliminary engineering.	\$2,500.00 Cost \$2,250.00 Fed. \$250.00 State
Wake Co. SS-4905DS REGIONAL	44939.1.1, HSIP-0401(279) US 401 at SR 2108 / SR 2036 (New Hope Road) and US 401 at Calvary Drive. Funds are needed for preliminary engineering.	\$5,000.00 Cost \$4,500.00 Fed. \$500.00 State

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

Division 5 (Continued)

Safety

Town/ County/PROJ CATEGORY	Project Description	Estimated Cost
Wake Co. SS-4905DT STATEWIDE	44931.1.1, HSIP-1163(012) SR 1163 (Kelly Road) at US 64 Eastbound in Wake County. Funds are needed for preliminary engineering.	\$2,500.00 Cost \$2,250.00 Fed. \$250.00 State
Wake Co. SS-4905DX DIVISION	44942.1.1, HSIP-2713(002) SR 2713 (Vandora Springs Road) at SR 2812 (Timber Drive). Funds are needed for preliminary engineering.	\$5,000.00 Cost \$4,500.00 Fed. \$500.00 State
Wake Co. SS-4905DZ DIVISION	44944.1.1, HSIP-1625(007) SR 1625 (Green Level Church Road) at Dennison Lane / Jewel Creek Drive. Funds are needed for preliminary engineering.	\$6,000.00 Cost \$5,400.00 Fed. \$600.00 State
Wake Co. SS-4905EA REGIONAL	44945.1.1, HSIP-0054(027) NC 54 (Northwest Maynard Road) at SR 1653 (Evans Road). Funds are needed for preliminary engineering.	\$3,000.00 Cost \$2,700.00 Fed. \$300.00 State

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

Division 5 (Continued)

Safety

Town/ County/PROJ CATEGORY	Project Description	Estimated Cost
Wake Co. SS-4905ED DIVISION	44958.1.1, HSIP-1006(048) SR 1006 (Old Stage Road) at SR 1010 (Ten Ten Road). Funds are needed for preliminary engineering.	\$45,000.00 Cost \$40,500.00 Fed. \$4,500.00 State
Wake Co. W-5205S DIVISION	45335.3.20, HSIP-1006(044) SR 1006 (Old Stage Road) from NC 42 to the Johnston County Line. Construction funds are needed for safety improvements.	\$1,200,000.00 Cost \$1,080,000.00 Fed. \$120,000.00 State
Wake Co. W-5601EI DIVISION	50138.3.139, HSIP-1393(005) SR 1393 (Bass Lake Road) at SR 1399 (James Slaughter Road). Funds are needed for construction for safety improvements.	\$44,500.00 Cost \$40,050.00 Fed. \$4,450.00 State

Municipal Bridge

Wake Co. M-0414EA DIVISION	42080.1.124, BRZ-NBIS(013) Municipal Bridge Inspection - 8 Bridges within the Municipality of Holly Springs. Funds are needed for preliminary engineering.	\$13,127.00 Cost \$10,502.00 Fed. \$2,625.00 Local
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**NCDOT October 2016 Board of Transportation Agenda
Approval of Funds for Specific Federal - Aid Projects**

Division 5 (Continued)

Bicycle and Pedestrian

Town/ County/PROJ CATEGORY	Project Description	Estimated Cost
Durham Co. EB-5703 DIVISION	51049.1.1, TAP-0505(077) Lasalle Street from Kangaroo Drive to Sprunt Avenue in Durham. Funds are needed for preliminary engineering.	\$85,000.00 Cost \$68,000.00 Fed. \$17,000.00 Local
Durham Co. EB-5704 DIVISION	51050.1.1, TAP-0505(076) Raynor Street from North Miami Boulevard to North Hardee Street in Durham. Funds are needed for preliminary engineering.	\$50,000.00 Cost \$40,000.00 Fed. \$10,000.00 Local
Durham Co. EB-5720 DIVISION	50416.1.1, TAP-0505(080) Bryant Bridge Trail - NC 55 to Kelly Bryant Bridge in Durham. Funds are needed for preliminary engineering.	\$175,000.00 Cost \$140,000.00 Fed. \$35,000.00 Local
Raleigh/ Wake Co. EB-5718 DIVISION	50414.1.F1, TAP-1012(010) SR 1012 (Western Boulevard) construct bicycle / pedestrian tunnel immediately west of SR 1321 (Avent Ferry Road) in Raleigh. Funds are needed for preliminary engineering.	\$1,000,000.00 Cost \$800,000.00 Fed. \$200,000.00 Local

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

Division 5 (Continued)

Bicycle and Pedestrian

Town/ County/PROJ CATEGORY	Project Description	Estimated Cost
Wake Co. U-5530GB DIVISION	44111.3.11, STPDA-0520(054) Construct a sidewalk along approximately 0.5 miles of Bridge Street crossing over the Norfolk Southern Railway in Fuquay-Varina. Funds are needed for construction for pedestrian crossing.	\$654,200.00 Cost \$523,360.00 Fed. \$130,840.00 Local

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

Division 6

Enhancement

Town/ County/PROJ CATEGORY	Project Description	Estimated Cost
Columbus Co. ER-5600FA REGIONAL	46305.3.4, STP-0701(032) Ornamental Planting along US 701, Tabor City in Columbus County. Funds are needed for construction for landscaping.	\$23,000.00 Cost \$18,400.00 Fed. \$4,600.00 State
Harnett Co. ER-5600FB REGIONAL	46305.3.22, STP-0055(062) Intersection of NC 55 and NC 210 in the Town of Angier. Funds are needed for construction for landscaping.	\$65,000.00 Cost \$52,000.00 Fed. \$13,000.00 State

Urban

Cumberland Co. U-2519BA REGIONAL	34817.2.FR14, NHF-0100(024) Fayetteville Outer Loop from south of SR 1003 (Camden Road) to south of SR 1104 (Strickland Bridge Road). Funds are needed for full right of way.	\$18,600,000.00 Cost \$14,880,000.00 Fed. \$3,720,000.00 State
Cumberland Co. U-2519BB REGIONAL	34817.2.FR15, NHF-0100(025) Fayetteville Outer Loop from south of SR 1104 (Strickland Bridge Road) to south of US 401. Funds are needed for full right of way.	\$9,200,000.00 Cost \$7,360,000.00 Fed. \$1,840,000.00 State

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

Division 6 (Continued)

Safety

Town/ County/PROJ CATEGORY	Project Description	Estimated Cost
Cumberland Co. SS-4906CT REGIONAL	44948.1.1, HSIP-0210(038) NC 210 at Spring Lake Town Center. Funds are needed for preliminary engineering.	\$8,500.00 Cost \$7,650.00 Fed. \$850.00 State
Cumberland Co. W-5706A DIVISION	44852.1.1, HSIP-1400(010) SR 1400 (Cliffdale Road) from SR 1410 (Bunce Road) westward past Reilly Road to the existing grass median in Fayetteville. Funds are needed for preliminary engineering.	\$300,000.00 Cost \$270,000.00 Fed. \$30,000.00 State
Cumberland Co. W-5706B REGIONAL	44852.1.2, HSIP-0401(280) US 401 (Ramsey Street) at SR 2523 (Bienville Drive). Funds are needed for preliminary engineering.	\$130,000.00 Cost \$117,000.00 Fed. \$13,000.00 State
Harnett Co. W-5601CC DIVISION	50138.2.82, HSIP-1229(015) SR 1229 (McDouglad Road) curve with culvert located east of SR 1251. Funds are needed for full right of way and utilities.	\$35,000.00 Cost \$31,500.00 Fed. \$3,500.00 State

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

Division 6 (Continued)

Safety

Town/ County/PROJ CATEGORY	Project Description	Estimated Cost
Robeson Co.	44949.1.1, HSIP-2207(003)	\$50,000.00 Cost
SS-4906CU	SR 2207 (Popes Crossing Road) at SR 2215 / SR 2289	\$45,000.00 Fed.
DIVISION	(Alamac Road). Funds are needed for preliminary engineering.	\$5,000.00 State

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

Division 7

Urban

Town/ County/PROJ CATEGORY	Project Description	Estimated Cost
Orange Co. U-3306(L) DIVISION	34913.3.2, STP-1733(018) SR 1733 (Weaver Dairy Road) from NC 86 to SR 1734 (Erwin Road). Funds are needed for landscaping.	\$58,645.00 Cost \$46,916.00 Fed. \$11,729.00 State

Bridge

Greensboro / Guilford Co. B-5553 DIVISION	46311.1.F1, STP-0708(070) Replace Bridge #98 over a Tributary of Horsepen Creek on Ballenger Road. \$92,000.00 has previously been approved for preliminary engineering. Additional funds are requested.	\$272,000.00 Cost \$272,000.00 Fed.
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Safety

Guilford Co. SS-4907BU DIVISION	44950.1.1, HSIP-1541(007) SR 1541 (Tarrant Road) at SR 1541 (Wendover Avenue) in High Point. Funds are needed for preliminary engineering.	\$20,000.00 Cost \$18,000.00 Fed. \$2,000.00 State
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**NCDOT October 2016 Board of Transportation Agenda
Approval of Funds for Specific Federal - Aid Projects**

Division 7 (Continued)

Rail Program

Town/ County/PROJ CATEGORY	Project Description	Estimated Cost
Guilford Co. Z-5400GQ DIVISION	43600.1.94, RR-000S(862) Railway-Highway Grade Crossing Safety Project. SR 3307 (Riverdale Road) at Norfolk Southern Tracks; Crossing #722 170N near Pleasant Garden. Funds are needed for preliminary engineering.	\$20,000.00 Cost \$18,000.00 Fed. \$2,000.00 State

Bicycle and Pedestrian

Greensboro/ Guilford Co. U-5532B DIVISION	46297.3.F3, TAP-0708(071) Phillips Avenue sidewalk improvements. \$280,000.00 has previously been approved for construction. Additional funds are requested.	\$100,000.00 Cost \$80,000.00 Fed. \$20,000.00 Local
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**NCDOT October 2016 Board of Transportation Agenda
Approval of Funds for Specific Federal - Aid Projects**

Division 8

Enhancement

Town/ County/PROJ CATEGORY	Project Description	Estimated Cost
Lee Co. ER-5600HD DIVISION	46305.3.25, STP-0015(053) Landscaping on the bridge slopes of US 1 at US 15-501 (Hawkins Avenue) in Lee County. Funds are needed for construction for landscaping.	\$53,000.00 Cost \$42,400.00 Fed. \$10,600.00 State

Safety

Chatham Co. SS-4908BH REGIONAL	44954.1.1, HSIP-0015(054) US 15 / 501 at Lowes Drive / Powell Place Lane. Funds are needed for preliminary engineering.	\$2,500.00 Cost \$2,250.00 Fed. \$250.00 State
Hoke Co. W-5708A REGIONAL	44854.1.1, HSIP-0015(055) US 15 / 501 at SR 1225 (Ashemont Road). Funds are needed for preliminary engineering.	\$60,000.00 Cost \$54,000.00 Fed. \$6,000.00 State
Richmond Co. SS-4908BG STATEWIDE	44953.1.1, HSIP-0001(150) US 1 South of SR 1475 (McDonald Church Road) in Hoffman. Funds are needed for preliminary engineering.	\$5,000.00 Cost \$4,500.00 Fed. \$500.00 State

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

Division 9

Enhancement

Town/ County/PROJ CATEGORY	Project Description	Estimated Cost
Forsyth Co. U-4909(L) DIVISION	40278.3.3, STP-2643(007) SR 2643 (Union Cross Road) from SR 2691 (Wallburg Road) to SR 2632 (Sedge Garden Road). Funds are needed for construction for landscaping.	\$265,769.00 Cost \$212,615.00 Fed. \$53,154.00 State

Urban

Winston- Salem / Forsyth Co. U-2579E STATEWIDE	34839.2.13, HPP-0918(046) Winston-Salem Northern Beltway (Eastern Section) from SR 2211 (Baux Mountain Road) to NC 8. Additional funds are needed for right of way for Advance Acquisition of SP 900 (Property of Frances Hopkins Estate).	\$110,026.00 Cost \$88,021.00 Fed. \$22,005.00 State
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Safety

Davidson Co. W-5601CF REGIONAL	50138.2.85, HSIP-0085(011) I-85 Business from SR 1797 (Evans Road) to SR 1963 (Moose Lodge Road). Funds are needed for full right of way.	\$15,000.00 Cost \$13,500.00 Fed. \$1,500.00 State
Forsyth Co. SS-4909BT STATEWIDE	44955.1.1, HSIP-4394(001) SR 4394 (Martin Luther King Jr. Drive) at I-40 Business westbound ramps / First Street. SR 4394 (Martin Luther King Jr. Drive) at I-40 Business eastbound ramps / Lowery Street. Funds are needed for preliminary engineering.	\$6,500.00 Cost \$5,850.00 Fed. \$650.00 State

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

Division 9 (Continued)

Safety

Town/ County/PROJ CATEGORY	Project Description	Estimated Cost
Forsyth Co. W-5601IG STATEWIDE	50138.3.242, HSIP-0040(048) I-40 between the Davie and Guilford County Lines. Funds are needed for construction for guardrail unit upgrades.	\$406,650.00 Cost \$365,985.00 Fed. \$40,665.00 State

Rural

Forsyth Co. R-2247CD STATEWIDE	34409.2.25, NHP-0421(088) US 421 Interchange with SR 1891 / Non-system (Peace Haven Road) and approaches on Winston-Salem Northern Beltway, (Combined with R-2247EC: reconstruct interchange at US 52 / Future I-74 Interchange with NC 65 on Winston-Salem Northern Beltway). Initial funds for right of way. This is a Design-Build Project.	\$5,360,000.00 Cost \$4,288,000.00 Fed. \$1,072,000.00 State
Forsyth Co. R-2247CD STATEWIDE	34409.3.23, NHP-0421(088) US 421 Interchange with SR 1891 / Non-system (Peace Haven Road) and approaches on Winston-Salem Northern Beltway, (Combined with R-2247EC: reconstruct interchange at US 52 / Future I-74 Interchange with NC 65 on Winston-Salem Northern Beltway). Funds are needed for construction based on the estimate from the 12-Month Tentative Letting List published on August 17, 2016. This is a Design-Build Project.	\$42,100,000.00 Cost \$33,594,656.00 Fed. \$8,398,664.00 State \$106,680.00 Local

Bicycle and Pedestrian

Forsyth Co. EB-5810 DIVISION	44662.1.1, TAP-0918(109) Construct sidewalks on various streets in Winston Salem. Funds are needed for preliminary engineering.	\$20,000.00 Cost \$16,000.00 Fed. \$4,000.00 Local
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**NCDOT October 2016 Board of Transportation Agenda
Approval of Funds for Specific Federal - Aid Projects**

Division 9 (Continued)

Bicycle and Pedestrian

Town/ County/PROJ CATEGORY	Project Description	Estimated Cost
Forsyth Co. EB-5811 DIVISION	44663.1.1, TAP-0918(107) New multi-use path construct pedestrian bridge over the Salem Creek Connector. Funds are needed for preliminary engineering.	\$240,000.00 Cost \$192,000.00 Fed. \$48,000.00 Local
Forsyth Co. EB-5812 DIVISION	44664.1.1, TAP-0918(108) Salem Creek Greenway - Forsyth Technical Community College to existing greenway at Marketplace Mall in Winston-Salem. Funds are needed for preliminary engineering.	\$150,000.00 Cost \$120,000.00 Fed. \$30,000.00 Local

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

Division 10

Interstate

Town/ County/PROJ CATEGORY	Project Description	Estimated Cost
Mecklenburg Co. I-5768 STATEWIDE	53011.3.1, NHP-0077(008) I-77 from the South Carolina Line to SR 1577 (West Tyvola Road). Funds are needed for construction based on the estimate from the 12-Month Tentative Letting List published on August 17, 2016. This is a Cash Flow project with \$4,450,000.00 in SFY 17 and \$4,450,000.00 in SFY 18.	\$8,900,000.00 Cost \$7,120,000.00 Fed. \$1,780,000.00 State

Enhancement

Locust/ Stanly Co. SR-5001CH DIVISION	40924.3.84, SRS-1010(013) Sidewalk and pedestrian improvements to serve Locust Elementary School. Construction funds are needed for sidewalk improvements.	\$530,155.00 Cost \$530,155.00 Fed.
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Safety

Cabarrus Co. W-5601ED REGIONAL	50138.3.132, HSIP-0003(010) NC 3 (Mooresville Road) at SR 1616 (Tuckaseegee Road / Rankin Road) near Kannapolis. Funds are needed for construction for safety improvements.	\$30,000.00 Cost \$27,000.00 Fed. \$3,000.00 State
Charlotte/ Mecklenburg Co. SS-4910CO REGIONAL	44961.1.1, HSIP-0021(025) US 21 (Statesville Road) and NC 24 (WT Harris Boulevard) in Charlotte. Funds are needed for preliminary engineering.	\$10,000.00 Cost \$9,000.00 Fed. \$1,000.00 State

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

Division 10 (Continued)

Safety

Town/ County/PROJ CATEGORY	Project Description	Estimated Cost
Charlotte/ Mecklenburg Co. SS-4910CP DIVISION	44962.1.1, HSIP-2805(002) SR 2805 (Harrisburg Road) and SR 2808 (Camp Stewart Road) near Charlotte. Funds are needed for preliminary engineering.	\$5,000.00 Cost \$4,500.00 Fed. \$500.00 State
Davidson/ Mecklenburg Co. W-5601HR DIVISION	50138.3.227, HSIP-2693(003) SR 2693 (Davidson-Concord Road) and Pierre Reverdy Drive (formerly Poetry Drive). Construction funds are needed for safety improvements.	\$96,000.00 Cost \$86,400.00 Fed. \$9,600.00 State
Union Co. W-5601AE REGIONAL	50138.3.32, HSIP-0522(005) NC 522 from South Carolina Line northward to SR 2166 (Trinity Church Road). Funds are needed for construction for safety improvements.	\$575,000.00 Cost \$517,500.00 Fed. \$57,500.00 State
Union Co. W-5601CT STATEWIDE	50138.3.99, HSIP-0074(180) US 74 at SR 1941 (Old Pageland-Monroe Road) in Monroe. Funds are needed for construction for safety improvements.	\$725,000.00 Cost \$652,500.00 Fed. \$72,500.00 State

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

Division 10 (Continued)

Rail Program

Town/ County/PROJ CATEGORY	Project Description	Estimated Cost	
Cabarrus Co. P-4405EA DIVISION	42412.3.8, STP-000S(608)	\$220,324.00	Cost
	Gladys H. Doster private crossing in Harrisburg; intersection of milepost 363.28 and the NCRR/Norfolk Southern Railway Tracks; Crossing #715 329N. \$386,450.00 has previously been approved for construction. Additional construction funds are needed as requested.	\$220,324.00	Fed.

Bicycle and Pedestrian

Albemarle/ Mecklenburg Co. EB-5817 DIVISION	44837.1.1, TAPDA-1001(074)	\$562,500.00	Cost
	McDowell Creek Greenway, Magnolia Plaza to Westmoreland Road. Funds are needed for preliminary engineering.	\$450,000.00	Fed.
		\$112,500.00	Local
Charlotte/ Mecklenburg Co. EB-5820 DIVISION	44840.1.1, TAPDA-1003(150)	\$312,500.00	Cost
	Charlotte 'B-Cycle' Expansion. Funds are needed for preliminary engineering.	\$250,000.00	Fed.
		\$62,500.00	Local
Albemarle/ Union Co. EB-5819 DIVISION	44839.1.1, TAPDA-1001(073)	\$225,000.00	Cost
	Pedestrian and Bicycle facility enhancements in downtown Waxhaw. Funds are needed for preliminary engineering.	\$180,000.00	Fed.
		\$45,000.00	Local

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

Division 11

Rural

Town/ County/PROJ CATEGORY	Project Description	Estimated Cost
Ashe Co. R-2915C DIVISION	34518.3.FR3, STP-0221(041) US 221 from north of South Fork New River to south of NC 194. Funds are needed for construction based on the estimate from the 12-Month Tentative Letting List published on August 17, 2016. This is a Cash Flow project with \$15,650,000.00 in SFY 17, \$15,650,000.00 in SFY 18, \$15,650,000.00 in SFY 19 and \$15,650,000.00 in SFY 20. This is an 8 week advertisement.	\$62,600,000.00 Cost \$50,080,000.00 Fed. \$12,520,000.00 State

Bicycle and Pedestrian

Caldwell Co. EB-5806 DIVISION	46457.1.1, STPDA-0321(036) Hospital Avenue from Harper Avenue to US 321 (Blowing Rock Boulevard). Funds are needed for preliminary engineering.	\$300,000.00 Cost \$240,000.00 Fed. \$60,000.00 Local
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**NCDOT October 2016 Board of Transportation Agenda
Approval of Funds for Specific Federal - Aid Projects**

Division 12

Safety

Town/ County/PROJ CATEGORY	Project Description	Estimated Cost
Cleveland Co. W-5712A REGIONAL	44858.1.1, HSIP-0180(006) NC 180 (South Post Road) at SR 2202 (Beam Road / Joe's Lake Road). Funds are needed for preliminary engineering.	\$300,000.00 Cost \$270,000.00 Fed. \$30,000.00 State
Cleveland Co. W-5712B REGIONAL	44858.1.2, HSIP-2263(002) SR 2263 (Margrace Road) and SR 2487 (Kings Mountain Boulevard). Funds are needed for preliminary engineering.	\$75,000.00 Cost \$67,500.00 Fed. \$7,500.00 State
Iredell Co. W-5712C REGIONAL	44858.1.3, 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, I-40, in Iredell County. Funds are needed for preliminary engineering.	\$20,000.00 Cost \$18,000.00 Fed. \$2,000.00 State
Iredell Co. W-5712D REGIONAL	44858.1.4, HSIP-0115(010) NC 115 in Iredell County between Mecklenburg County Line and Wilkes County Line. Funds are needed for preliminary engineering.	\$20,000.00 Cost \$18,000.00 Fed. \$2,000.00 State

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

Division 12 (Continued)

Rail Program

Town/ County/PROJ CATEGORY	Project Description	Estimated Cost
Cleveland Co. Z-5400LK DIVISION	43600.1.84, RR-0216(001) Railway-Highway Grade Crossing Safety Project. NC 216 (Piedmont Avenue) at Crossing # 716 257R in Kings Mountain. Funds are needed for preliminary engineering.	\$40,000.00 Cost \$36,000.00 Fed. \$4,000.00 State

Project Mitigation

Iredell Co. I-3819WM STATEWIDE	34192.4.1, NHP-040-2(171)152 Stream Mitigation Site. Funds are requested for Stream and Benthic Monitoring.	\$100,000.00 Cost \$80,000.00 Fed. \$20,000.00 State
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Bicycle and Pedestrian

Mount Holly/ Gaston Co. EB-5114 DIVISION	45523.3.1, STPEB-1227(008) Mount Holly Riverfront Greenway from Mount Holly Municipal Complex southward to the end of Tuckasegee Park. Funds are needed to construct a greenway. This is a Strategic Transportation Investments Transition project.	\$800,000.00 Cost \$640,000.00 Fed. \$160,000.00 State
Statesville/ Iredell Co. EB-5818 DIVISION	44841.1.1, TAPDA-0027(018) Greenway Connector under US 21 (Turnersburg Highway). Funds are needed for preliminary engineering.	\$562,500.00 Cost \$450,000.00 Fed. \$112,500.00 Local

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

Division 13

Safety

Town/ County/PROJ CATEGORY	Project Description	Estimated Cost
Asheville/ Buncombe Co. SS-4913CK REGIONAL	44963.1.1, HSIP-0019(053) US 19 / 23 (Patton Avenue) at Florida Avenue in Asheville. Funds are needed for preliminary engineering.	\$7,000.00 Cost \$6,300.00 Fed. \$700.00 State
Buncombe Co. SS-4913CL DIVISION	44964.1.1, HSIP-1004(064) SR 1004 (Newfound Road) from NC 63 to SR 1297 (Browntown Road), near Leicester. Funds are needed for preliminary engineering.	\$24,000.00 Cost \$21,600.00 Fed. \$2,400.00 State
Buncombe Co. W-5601GL DIVISION	50138.3.195, HSIP-3412(001) SR 3412 (Sandhill Road) at SR 1224 (Sandhill School Road / Oakview Road). Construction funds are needed for safety improvements.	\$95,600.00 Cost \$86,040.00 Fed. \$9,560.00 State
Burke Co. W-5601GN STATEWIDE	50138.3.197, HSIP-0040(042) I-40 Westbound ramps at SR 1761 (Exit 118). Funds are needed for construction for safety improvements.	\$70,000.00 Cost \$63,000.00 Fed. \$7,000.00 State

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

Division 13 (Continued)

Safety

Town/ County/PROJ CATEGORY	Project Description	Estimated Cost
Burke Co. W-5713A DIVISION	44861.3.1, HSIP-1002(049) SR 1002 (Center Street) at SR 1761 (Main Street) in Hildebran. Funds are needed for construction for safety improvements.	\$35,000.00 Cost \$31,500.00 Fed. \$3,500.00 State
Burke Co. W-5713A DIVISION	44861.1.1, HSIP-1002(049) SR 1002 (Center Street) at SR 1761 (Main Street) in Hildebran. Funds are needed for preliminary engineering.	\$5,000.00 Cost \$4,500.00 Fed. \$500.00 State

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

Division 14

Safety

Town/ County/PROJ CATEGORY	Project Description	Estimated Cost
Henderson Co. SS-4914CT DIVISION	44965.1.1, HSIP-1006(049) SR 1006 (Howard Gap Road) at SR 1625 (Whispering Hills Drive) near Hendersonville. Funds are needed for preliminary engineering.	\$5,000.00 Cost \$4,500.00 Fed. \$500.00 State
Henderson Co. SS-4914CU DIVISION	44966.1.1, HSIP-1127(016) SR 1127 (Kanuga Road) at SR 1228 (Jearl Lane) near Hendersonville.	\$5,000.00 Cost \$4,500.00 Fed. \$500.00 State
Macon Co. SS-4914CW STATEWIDE	44968.1.1, HSIP-0023(036) US 23-441 from SR 1331 (Brendle Road) in Macon County northeast to a point 0.4 mile northeast of SR 1300 (Byrd Gap Road) in McDowell County, near Franklin. Funds are needed for preliminary engineering.	\$18,000.00 Cost \$16,200.00 Fed. \$1,800.00 State
Transylvania Co. SS-4914CV REGIONAL	44967.1.1, HSIP-0276(017) US 276 approximately 1.0 mile south of the Haywood County Line, near Brevard. Funds are needed for preliminary engineering.	\$25,000.00 Cost \$22,500.00 Fed. \$2,500.00 State

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

Statewide

Planning and Research

Town/ County/PROJ CATEGORY	Project Description	Estimated Cost	
Statewide M-0478D STATEWIDE	50141.1.4, OJT-00JT(021) FY 2016 On-The-Job Training (OJT) Allocation. Funds are needed for training.	\$181,234.00 \$181,234.00	Cost Fed.
Statewide M-0480D STATEWIDE	50142.1.4, DBE-000S(863) Disadvantaged Business Enterprise Training. FY 2016 Disadvantaged Business Enterprise / Supportive Services (DBE / SS) Statements of Work.	\$343,564.00 \$343,564.00	Cost Fed.
Statewide M-0519 EXEMPT	52039.1.1, TMAS-FY15(002) Develop technology and methods to transmit bicycle and pedestrian into Federal Highway Administration (FHWA) Traffic Monitoring Analysis System. Funds are needed for planning and research.	\$35,000.00 \$35,000.00	Cost Fed.

ITEM M SUMMARY - 106 PROJECT(S) - (TOTAL FEDERAL AND STATE) \$171,463,900.00

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

REVISIONS TO THE 2016-2025 STIP

HIGHWAY PROGRAM
STIP ADDITIONS

DIVISION 1

F-5702 DARE HYDE PROJ.CATEGORY DIVISION	NC 12, HATTERAS FERRY DOCK IN DARE COUNTY TO OCRACOKE FERRY DOCKS IN HYDE COUNTY. CONSTRUCT TWO PASSENGER FERRIES TO BE USED ALONG NEW ROUTE. IMPLEMENT TRANSIT SYSTEM TO AID PASSENGERS ON OCRACOKE ISLAND. <u>ADD PRELIMINARY ENGINEERING IN FY 17 NOT PREVIOUSLY PROGRAMMED. PROJECT RECEIVED STATE APPROPRIATED FUNDS TO PARTNER WITH FLAP GRANT FUNDING.</u>	ENGINEERING	FY 2017 -	<u>\$926,000</u>	(O) \$926,000
* F-5702A DARE PROJ.CATEGORY DIVISION	NC 12, HATTERAS PARKING LOT IMPROVEMENTS AND CONNECTIVITY MEASURES, HATTERAS LOADING FACILITY AND DOCK. <u>ADD CONSTRUCTION IN FY 17 AND FY 18 NOT PREVIOUSLY PROGRAMMED. PROJECT RECEIVED FLAP GRANT.</u>	CONSTRUCTION	FY 2017 - FY 2018 -	\$130,000 \$640,000	(FLAP) (FLAP) \$770,000
* F-5702B HYDE PROJ.CATEGORY DIVISION	NC 12, OCRACOKE DOCK AND PEDESTRIAN WAITING AND ACCESS ACCOMMODATIONS <u>ADD CONSTRUCTION IN FY 17 AND FY 18 NOT PREVIOUSLY PROGRAMMED. PROJECT RECEIVED FLAP GRANT.</u>	CONSTRUCTION	FY 2017 - FY 2018 - FY 2018 -	\$125,000 \$118,000 <u>\$407,000</u>	(FLAP) (FLAP) (O) \$650,000
* F-5702C DARE HYDE PROJ.CATEGORY DIVISION	NC 12, CONSTRUCT TWO PASSENGER FERRIES <u>ADD CONSTRUCTION IN FY 17 AND FY 18 NOT PREVIOUSLY PROGRAMMED. PROJECT RECEIVED FLAP GRANT.</u>	CONSTRUCTION	FY 2017 - FY 2018 -	\$2,700,000 \$3,000,000	(FLAP) (FLAP) \$5,700,000
F-5702D HYDE PROJ.CATEGORY DIVISION	NC 12, CONSTRUCT TRANSIT SHELTERS/BENCHES AND TRANSIT VEHICLES <u>ADD CONSTRUCTION IN FY 17 AND FY 18 NOT PREVIOUSLY PROGRAMMED. PROJECT RECEIVED STATE APPROPRIATED FUNDS TO PARTNER WITH FLAP GRANT FUNDING.</u>	CONSTRUCTION	FY 2017 - FY 2018 -	\$235,000 \$110,000	(O) (O) \$345,000

* INDICATES FEDERAL AMENDMENT

REVISIONS TO THE 2016-2025 STIP

HIGHWAY PROGRAM
STIP ADDITIONS

DIVISION 4

* I-5976 WILSON PROJ.CATEGORY STATEWIDE	I-95, MILE MARKER 115.2 TO MILE MARKER 122.1. BRIDGE PRESERVATION. <u>ADD CONSTRUCTION IN FY 17 NOT PREVIOUSLY PROGRAMMED.</u>	CONSTRUCTION	FY 2017 -	<u>\$2,880,000</u> \$2,880,000	(NHP)
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* I-5977 JOHNSTON NASH PROJ.CATEGORY STATEWIDE	I-95, MILE MARKER 131.6 TO MILE MARKER 151.1. I-40, MILE MARKER 333.5 TO MILE MARKER 333.9. BRIDGE PRESERVATION. <u>ADD CONSTRUCTION IN FY 17 NOT PREVIOUSLY PROGRAMMED.</u>	CONSTRUCTION	FY 2017 -	<u>\$660,000</u> \$660,000	(NHP)
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* I-5978 JOHNSTON PROJ.CATEGORY STATEWIDE	I-95, MILE MARKER 90.3 TO MILE MARKER 91.7. BRIDGE PRESERVATION. <u>ADD CONSTRUCTION IN FY 17 NOT PREVIOUSLY PROGRAMMED.</u>	CONSTRUCTION	FY 2017 -	<u>\$2,500,000</u> \$2,500,000	(NHP)
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STATEWIDE

* M-0515 STATEWIDE PROJ.CATEGORY DIVISION	VARIOUS, RIGHT-OF-WAY BRANCH, REVIEW OF LOCAL PUBLIC AGENCY (LPA) PROJECTS BY THE APPRAISAL SECTION. <u>ADD PROJECT AT THE REQUEST OF THE RIGHT-OF- WAY BRANCH.</u>	RIGHT-OF-WAY	FY 2017 -	\$250,000	(T)
			FY 2018 -	<u>\$250,000</u>	(T)
				\$500,000	

STIP MODIFICATIONS

DIVISION 1

* B-2500B DARE PROJ.CATEGORY TRANSITION	NC 12, PHASE II, LONG-TERM IMPROVEMENTS AT RODANTHE. <u>TO ALLOW ADDITIONAL TIME TO DEVELOP THE DESIGN BUILD PROPOSALS, MOVE RIGHT-OF-WAY FROM FY 16 TO FY 17 AND CONSTRUCTION FROM FY 16 TO FY 17.</u>	RIGHT-OF-WAY CONSTRUCTION	FY 2017 -	\$840,000	(NHP)
			FY 2017 -	\$17,440,000	(ER)
			FY 2017 -	\$40,693,000	(NHP)
			FY 2018 -	\$17,440,000	(ER)
			FY 2018 -	\$40,693,000	(NHP)
			FY 2019 -	\$17,440,000	(ER)
			FY 2019 -	\$40,694,000	(NHP)
				\$175,240,000	

* INDICATES FEDERAL AMENDMENT

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REVISIONS TO THE 2016-2025 STIP

HIGHWAY PROGRAM
STIP MODIFICATIONS

DIVISION 1

P-5600A	NCVA RR, TRACK IMPROVEMENTS.	CONSTRUCTION	FY 2017 -	\$5,800,000	(DP)
BERTIE	<u>TO ALLOW ADDITIONAL TIME TO COORDINATE WITH</u>		FY 2017 -	\$2,800,000	(T)
HERTFORD	<u>FEDERAL RAIL ADMINISTRATION, DELAY</u>		FY 2017 -	\$3,031,000	(O)
NORTHAMPTON	<u>CONSTRUCTION FROM FY 16 TO FY 17.</u>			\$11,631,000	
PROJ.CATEGORY					
TRANSITION					

DIVISION 2

* B-4786	US 13, REPLACE BRIDGE 730038 OVER TAR RIVER.	RIGHT-OF-WAY	FY 2018 -	\$1,000,000	(NHPB)
PITT	<u>ACCELERATE CONSTRUCTION FROM FY 20 TO FY 19.</u>	CONSTRUCTION	FY 2019 -	\$2,667,000	(NHPB)
PROJ.CATEGORY			FY 2020 -	\$2,667,000	(NHPB)
REGIONAL			FY 2021 -	\$2,666,000	(NHPB)
				\$9,000,000	

R-5703	NC 148 (HARVEY PARKWAY), NC 58 TO NC 11.	RIGHT-OF-WAY	FY 2017 -	\$5,332,000	(T)
LENOIR	CONSTRUCT MULTI-LANE FACILITY ON NEW	UTILITIES	FY 2017 -	\$2,900,000	(T)
PROJ.CATEGORY	LOCATION.	CONSTRUCTION	FY 2018 -	\$28,833,000	(T)
REGIONAL	<u>TO CONVERT BACK TO CONVENTIONAL CONTRACT,</u>		FY 2019 -	\$28,833,000	(T)
	<u>PROJECT WILL NO LONGER BE DESIGN BUILD AND</u>		FY 2020 -	\$28,833,000	(T)
	<u>CONSTRUCTION WILL MOVE FROM FROM FY 17 TO FY</u>			\$94,731,000	
	<u>18.</u>				

DIVISION 3

* U-5790	US 421 (CAROLINA BEACH ROAD), NC 132 (SOUTH	RIGHT-OF-WAY	FY 2020 -	\$4,525,000	(NHP)
NEW HANOVER	COLLEGE ROAD) TO SANDERS ROAD IN WILMINGTON.	UTILITIES	FY 2020 -	\$183,000	(NHP)
PROJ.CATEGORY	WIDEN EXISTING ROADWAY AND CONSTRUCT	CONSTRUCTION	FY 2022 -	\$20,386,000	(NHP)
DIVISION	FLYOVERS AT US 421 AND NC 132.			\$25,094,000	
	<u>TO MODIFY CONTRACT FROM DESIGN BUILD TO</u>				
	<u>CONVENTIONAL DESIGN BID BUILD, MOVE</u>				
	<u>CONSTRUCTION FROM FY 20 TO FY 22.</u>				

DIVISION 4

B-4562	SR 2143 (BEULAHTOWN ROAD), REPLACE BRIDGE	RIGHT-OF-WAY	FY 2017 -	\$125,000	(STPOFF)
JOHNSTON	500216 OVER LITTLE BUFFALO CREEK.	CONSTRUCTION	FY 2017 -	\$1,250,000	(STPOFF)
PROJ.CATEGORY	<u>ACCELERATE CONSTRUCTION FROM FY 18 TO FY 17.</u>			\$1,375,000	
DIVISION	<u>PROJECT WILL NOW BE DESIGN BUILD CONTRACT.</u>				

* INDICATES FEDERAL AMENDMENT

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REVISIONS TO THE 2016-2025 STIP

HIGHWAY PROGRAM
STIP MODIFICATIONS

DIVISION 4

B-5654 JOHNSTON PROJ.CATEGORY DIVISION	SR 1550 (WINSTON ROAD), REPLACE BRIDGE 500141 OVER WHITE OAK CREEK. <u>ACCELERATE CONSTRUCTION FROM FY 18 TO FY 17.</u> <u>PROJECT WILL NOW BE DESIGN BUILD CONTRACT.</u>	RIGHT-OF-WAY CONSTRUCTION	FY 2017 - \$30,000 (STPOFF) FY 2017 - <u>\$604,000</u> (STPOFF) \$634,000
B-5656 WAYNE PROJ.CATEGORY DIVISION	SR 1127 (HERRING ROAD), REPLACE BRIDGE 950133 OVER YELLOW SWAMP. <u>ACCELERATE CONSTRUCTION FROM FY 18 TO FY 17.</u> <u>PROJECT WILL NOW BE DESIGN BUILD CONTRACT.</u>	RIGHT-OF-WAY CONSTRUCTION	FY 2017 - \$21,000 (STPOFF) FY 2017 - <u>\$415,000</u> (STPOFF) \$436,000
B-5659 JOHNSTON PROJ.CATEGORY DIVISION	SR 1738 (EATMON ROAD), REPLACE BRIDGE 500432 OVER CATTAIL CREEK. <u>ACCELERATE CONSTRUCTION FROM FY 18 TO FY 17.</u> <u>PROJECT WILL NOW BE DESIGN BUILD CONTRACT.</u>	RIGHT-OF-WAY CONSTRUCTION	FY 2017 - \$16,000 (STPOFF) FY 2017 - <u>\$310,000</u> (STPOFF) \$326,000
C-5546 NASH PROJ.CATEGORY EXEMPT	ROCKY MOUNT, BENVENUE ROAD (NC 43/NC 48) AT JEFFREYS ROAD. INTERSECTION IMPROVEMENTS. <u>TO ALLOW CITY OF ROCKY MOUNT ADDITIONAL</u> <u>TIME FOR DESIGN, DELAY CONSTRUCTION FROM FY</u> <u>16 TO FY 17.</u>	CONSTRUCTION	FY 2017 - \$130,000 (CMAQ) \$130,000
U-3334B JOHNSTON PROJ.CATEGORY DIVISION	SR 1923 (BOOKER DAIRY ROAD) EXTENSION, SR 1003 (BUFFALO ROAD) TO US 301 (BRIGHTLEAF BOULEVARD). <u>COST INCREASE EXCEEDING \$2 MILLION AND 25%</u> <u>THRESHOLDS</u>	RIGHT-OF-WAY CONSTRUCTION	FY 2016 - \$2,045,000 (T) FY 2017 - \$2,045,000 (T) FY 2018 - \$6,350,000 (T) FY 2019 - \$6,350,000 (T) \$16,790,000
* U-5935 WILSON PROJ.CATEGORY REGIONAL	US 301, BLACK CREEK ROAD TO SR 1515 (LIPSCOMB ROAD). UPGRADE ROADWAY INCLUDING BICYCLE AND PEDESTRIAN ACCOMODATIONS. <u>ADD ADDITIONAL REGIONAL STIP FUNDING TO</u> <u>PARTNER WITH TIGER GRANT. LIMITS OF PROJECT</u> <u>HAVE BEEN EXTENDED.</u>	CONSTRUCTION	FY 2017 - \$10,000,000 (DP) FY 2017 - \$6,500,000 (T) FY 2017 - <u>\$2,000,000</u> (L) \$18,500,000

* INDICATES FEDERAL AMENDMENT

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HIGHWAY PROGRAM
STIP MODIFICATIONS

DIVISION 4

W-5500	SR 1556 (WAYNE MEMORIAL DRIVE), SR 1622	RIGHT-OF-WAY	FY 2016 -	\$1,428,000	(HSIP)
WAYNE	(WOODSIDE DRIVE) TO SR 1752 (SAULSTON-	CONSTRUCTION	FY 2017 -	\$1,505,000	(HSIP)
PROJ.CATEGORY	PATETOWN ROAD). SAFETY IMPROVEMENTS			\$2,933,000	
TRANSITION	INCLUDING WIDENING, SHOULDERS,				
	SUPERELEVATION REVISIONS, OVERLAYING				
	PAVEMENT MARKINGS AND SIGNING.				
	<u>TO ALLOW ADDITIONAL TIME FOR UTILITY</u>				
	<u>COORDINATION, DELAY CONSTRUCTION FROM FY 16</u>				
	<u>TO FY 17.</u>				

DIVISION 5

B-5140	SR 1001 (PEARCES ROAD), REPLACE BRIDGE 910195	RIGHT-OF-WAY	FY 2018 -	\$70,000	(HFB)
WAKE	OVER MOCASSIN CREEK.	UTILITIES	FY 2018 -	\$89,000	(HFB)
PROJ.CATEGORY	<u>TO ALLOW ADDITIONAL TIME TO SELECT THE DESIGN</u>	CONSTRUCTION	FY 2019 -	\$850,000	(HFB)
HWY FUNDS	<u>ALTERNATIVE, DELAY RIGHT-OF-WAY FROM FY 17 TO</u>			\$1,009,000	
	<u>FY 18 AND CONSTRUCTION FROM FY 18 TO FY 19</u>				
C-5567	EAST LYON STATION GREENWAY, TOWN OF BUTNER	RIGHT-OF-WAY	FY 2017 -	\$28,000	(CMAQ)
GRANVILLE	GREENWAY EXTENSION. CONSTRUCT MULTI-USE		FY 2017 -	\$7,000	(L)
PROJ.CATEGORY	PATH.	CONSTRUCTION	FY 2017 -	\$144,000	(CMAQ)
EXEMPT	<u>TO ALLOW ADDITIONAL TIME TO COMPLETE THE</u>		FY 2017 -	\$36,000	(L)
	<u>DESIGN PHASE, DELAY RIGHT-OF-WAY FROM FY 16</u>			\$215,000	
	<u>TO FY 17 AND CONSTRUCTION FROM FY 16 TO FY 17</u>				
EB-4707B	SR 2220, SR 1113 (POPE ROAD) TO SR 1116 (GARRETT	CONSTRUCTION	FY 2017 -	\$4,067,000	(STBGDA)
DURHAM	ROAD)		FY 2017 -	\$250,000	(O)
PROJ.CATEGORY	<u>AT REQUEST OF DIVISION OFFICE, DELAY</u>		FY 2017 -	\$767,000	(L)
TRANSITION	<u>CONSTRUCTION FROM FY 16 TO FY 17</u>			\$5,084,000	
U-5537	SR 1521 (LAKE PINE DRIVE), WIDEN TO 3 LANES -	RIGHT-OF-WAY	FY 2017 -	\$56,000	(STBGDA)
WAKE	NORTH OF MACGREGOR PINES ROAD TO NORTH OF		FY 2017 -	\$24,000	(L)
PROJ.CATEGORY	VERSAILLES DRIVE. INCL. 10 FT MULTIUSE PATH EAST	CONSTRUCTION	FY 2017 -	\$668,000	(STBGDA)
DIVISION	SIDE; 5 FT SIDEWALK WEST SIDE.		FY 2017 -	\$167,000	(L)
	<u>TO ALLOW TIME FOR THE TOWN TO COMPLETE THE</u>			\$915,000	
	<u>R/W PLANS, DELAY RIGHT-OF-WAY FY 16 TO FROM FY</u>				
	<u>17</u>				
U-5745	NC 751 (HOPE VALLEY ROAD), SR 1183 (UNIVERSITY	RIGHT-OF-WAY	FY 2018 -	\$150,000	(T)
DURHAM	DRIVE) INTERSECTION IN DURHAM. CONSTRUCT	CONSTRUCTION	FY 2019 -	\$1,300,000	(T)
PROJ.CATEGORY	ROUNDAABOUT.			\$1,450,000	
REGIONAL	<u>TO ALLOW ADDITIONAL TIME TO COMPLETE THE</u>				
	<u>DESIGN PHASE, DELAY RIGHT-OF-WAY FROM FY 17</u>				
	<u>TO FY 18 AND CONSTRUCTION FROM FY 18 TO FY 19</u>				

* INDICATES FEDERAL AMENDMENT

REVISIONS TO THE 2016-2025 STIP

HIGHWAY PROGRAM
STIP MODIFICATIONS

DIVISION 6

* B-5339	SR 1544 (GUY ROAD), REPLACE BRIDGE 420233 OVER	RIGHT-OF-WAY	FY 2023 -	\$80,000	(STPOFF)
HARNETT	BLACK RIVER TRIBUTARY.	CONSTRUCTION	FY 2024 -	\$770,000	(STPOFF)
PROJ.CATEGORY	<u>PROJECT FUNDING BEING SWITCHED BACK TO STIP</u>			\$850,000	
DIVISION	<u>FUNDING, DELAY RIGHT-OF-WAY FROM FY 16 TO FY</u>				
	<u>23 AND CONSTRUCTION FROM FY 16 TO FY 24.</u>				

* B-5414	SR 1234 (LEAFLET CHURCH ROAD), REPLACE BRIDGE	RIGHT-OF-WAY	FY 2023 -	\$50,000	(STPOFF)
HARNETT	420195 OVER BRANCH OF UPPER LITTLE RIVER.	CONSTRUCTION	FY 2024 -	\$525,000	(STPOFF)
PROJ.CATEGORY	<u>PROJECT FUNDING BEING SWITCHED BACK TO STIP</u>			\$575,000	
DIVISION	<u>FUNDING, DELAY RIGHT-OF-WAY FROM FY 16 TO FY</u>				
	<u>23 AND CONSTRUCTION FROM FY 16 TO FY 24.</u>				

DIVISION 7

B-5352	US 220 (NORTHBOUND), REPLACE BRIDGE 780131	RIGHT-OF-WAY	FY 2017 -	\$240,000	(NHPB)
ROCKINGHAM	OVER NORFOLK SOUTHERN RAILROAD.	CONSTRUCTION	FY 2019 -	\$975,000	(NHPB)
PROJ.CATEGORY	<u>TO ALLOW ADDITIONAL TIME TO COORDINATE</u>		FY 2020 -	\$975,000	(NHPB)
STATEWIDE	<u>PROJECT DESIGN WITH NORFOLK-SOUTHERN</u>			\$2,190,000	
	<u>RAILROAD, DELAY RIGHT-OF-WAY FROM FY 16 TO FY</u>				
	<u>17 AND CONSTRUCTION FROM FY 18 TO FY 19</u>				

R-4707	US 29; SR 4771 (REEDY FORK PARKWAY), SR 2641	RIGHT-OF-WAY	FY 2019 -	\$3,220,000	(T)
GUILFORD	(BRYAN PARK ROAD) TO US 29 / SR 4771 (REEDY FORK	UTILITIES	FY 2019 -	\$982,000	(T)
PROJ.CATEGORY	PARKWAY) INTERCHANGE IN GREENSBORO. IMPROVE			\$4,202,000	
REGIONAL	ROADWAY, MODIFY INTERCHANGE AND REPLACE				
	BRIDGE 400360.				
	<u>TO ALLOW ADDITIONAL TIME TO PREPARE THE</u>				
	<u>ENVIRONMENTAL DOCUMENT AND SELECT AN</u>				
	<u>ALTERNATIVE, DELAY RIGHT-OF-WAY FY 17 TO FY 19.</u>				

* R-4707A	SR 4771 (REEDY FORK PARKWAY), REPLACE BRIDGE	CONSTRUCTION	FY 2020 -	\$8,821,000	(T)
GUILFORD	400360 OVER US 29 AND CONSTRUCT TIE-INS.			\$8,821,000	
PROJ.CATEGORY	<u>AT REQUEST OF PROJECT DEVELOPMENT BRANCH,</u>				
DIVISION	<u>DELAY CONSTRUCTION FROM FY 18 TO FY 20.</u>				

U-5306B	US 220 (BATTLEGROUND AVENUE), INTERSECTION	CONSTRUCTION	FY 2017 -	\$3,100,000	(NHP)
GUILFORD	WITH WESTRIDGE ROAD AND APPROACHES			\$3,100,000	
PROJ.CATEGORY	<u>TO ALLOW ADDITIONAL TIME FOR THE CITY TO</u>				
REGIONAL	<u>COMPLETE R/W ACQUISITION AND RELOCATE</u>				
	<u>UTILITIES, DELAY CONSTRUCTION FROM FY 16 TO FY</u>				
	<u>17</u>				

* INDICATES FEDERAL AMENDMENT

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REVISIONS TO THE 2016-2025 STIP

HIGHWAY PROGRAM
STIP MODIFICATIONS

DIVISION 7

U-5538C	NC 119, SR 1981 (TROLLINGWOOD-HAWFIELDS ROAD)	RIGHT-OF-WAY	FY 2017 -	\$150,000	(L)
ALAMANCE	IN MEBANE. ADD TURN LANES.	CONSTRUCTION	FY 2017 -	\$250,000	(HSIP)
PROJ.CATEGORY	<u>TO ALLOW ADDITIONAL TIME TO ADDRESS</u>		FY 2017 -	<u>\$450,000</u>	(T)
DIVISION	<u>COMMUNITY HISTORICAL IMPACTS AND COMPLETE</u>			<u>\$850,000</u>	
	<u>PROJECT DESIGN, DELAY RIGHT-OF-WAY FROM FY 16</u>				
	<u>TO FY 17 AND CONSTRUCTION FROM FY 16 TO FY 17</u>				

W-5143	SR 1004 (EFLAND- CEDAR GROVE ROAD), NORTH OF	CONSTRUCTION	FY 2017 -	\$325,000	(HSIP)
ORANGE	INTERSECTION WITH SR 1332 (HIGHLAND FARM			\$325,000	
PROJ.CATEGORY	ROAD). IMPROVE HORIZONTAL ALIGNMENT OF				
TRANSITION	CURVE TO PROVIDE A MINIMUM OF 60 MPH DESIGN				
	SPEED.				
	<u>TO ALLOW ADDITIONAL TIME TO COMPLETE THE R/W</u>				
	<u>PHASE, DELAY CONSTRUCTION FROM FY 16 TO FY 17</u>				

DIVISION 8

B-5739	SR 2621 (FOUSHEE ROAD), REPLACE BRIDGE 750170	RIGHT-OF-WAY	FY 2016 -	\$37,000	(STPOFF)
RANDOLPH	OVER REED CREEK.	CONSTRUCTION	FY 2017 -	\$747,000	(STPOFF)
PROJ.CATEGORY	<u>ACCELERATE RIGHT-OF-WAY FROM FY 17 TO FY 16</u>			\$784,000	
DIVISION	<u>AT REQUEST OF DIVISION OFFICE.</u>				

B-5763	SR 2407 (STARMOUNT ROAD), REPLACE BRIDGE	RIGHT-OF-WAY	FY 2016 -	\$21,000	(STPOFF)
RANDOLPH	750129 OVER BRANCH OF SANDY CREEK.	CONSTRUCTION	FY 2017 -	\$427,000	(STPOFF)
PROJ.CATEGORY	<u>ACCELERATE RIGHT-OF-WAY FROM FY 17 TO FY 16</u>			\$448,000	
DIVISION	<u>AT REQUEST OF DIVISION OFFICE.</u>				

U-3628	NC 24 / NC 27, COURTHOUSE WEST OF NC 22	RIGHT-OF-WAY	FY 2021 -	\$2,031,000	(T)
MOORE	(MCNEILL STREET) TO US 15 / US 501 IN CARTHAGE.	UTILITIES	FY 2021 -	\$244,000	(T)
PROJ.CATEGORY	WIDEN TO THREE LANES WITH CURB AND GUTTER	CONSTRUCTION	FY 2023 -	\$3,400,000	(T)
REGIONAL	AND BICYCLE / PEDESTRIAN ACCOMMODATIONS.			\$5,675,000	
	<u>TO REFLECT CHANGE FROM FEDERAL TO STATE</u>				
	<u>FUNDING, DELAY RIGHT-OF-WAY FY 20 TO FROM FY</u>				
	<u>21 AND CONSTRUCTION FROM FY 22 TO FY 23.</u>				

* INDICATES FEDERAL AMENDMENT

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HIGHWAY PROGRAM
STIP MODIFICATIONS

DIVISION 9

EB-4020C FORSYTH PROJ.CATEGORY TRANSITION	BRUSHY FORK GREENWAY, LOWERY STREET TO REYNOLDS PARK ROAD <u>TO ALLOW ADDITIONAL TIME FOR THE CITY TO COMPLETE THE DESIGN PHASE, DELAY RIGHT-OF- WAY FY 16 TO FY 17</u>	RIGHT-OF-WAY CONSTRUCTION	FY 2017 - \$20,000 (STBGDA) FY 2017 - \$5,000 (L) FY 2017 - \$700,000 (STBGDA) FY 2017 - \$300,000 (STPEB) FY 2017 - \$175,000 (L)	
			\$1,200,000	

DIVISION 10

B-2506 ANSON PROJ.CATEGORY DIVISION	SR 1627 (PINKSTON-RIVER), REPLACE BRIDGE 030008 OVER BROWN CREEK. <u>TO ALLOW ADDITIONAL TIME TO RESOLVE RIGHT OF WAY ISSUES DELAY CONSTRUCTION FROM FY 16 TO FY 17.</u>	CONSTRUCTION	FY 2017 - \$1,100,000 (STPOFF) \$1,100,000	
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B-5378 MECKLENBURG PROJ.CATEGORY DIVISION	MICHAEL BAKER ROAD, REPLACE BRIDGE 590210 OVER BRIAR CREEK IN CHARLOTTE. <u>TO ALLOW ADDITIONAL TIME TO RESOLVE RIGHT OF WAY ISSUES DELAY CONSTRUCTION FROM FY 16 TO FY 17.</u>	CONSTRUCTION	FY 2017 - \$1,360,000 (STPOFF) FY 2017 - \$340,000 (L) \$1,700,000	
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C-5540 MECKLENBURG PROJ.CATEGORY EXEMPT	CHARLOTTE, NAVIN ROAD, ALPINE DRIVE TO GIBBON ROAD. CONSTRUCT SIDEWALK ON NORTH SIDE. GIBBON ROAD, NEVIN ROAD TO SUGAR CREEK ROAD. CONSTRUCT SIDEWALK ON SOUTH SIDE. WEST SUGAR ROAD, BISANER STREET AND MALLARD CREEK ROAD. FILL GAPS IN SIDEWALK NETWORK ON EAST SIDE. <u>TO ALLOW ADDITIONAL TIME FOR UTILITY RELOCATIONS DELAY CONSTRUCTION FROM FY 16 TO FY 17.</u>	CONSTRUCTION	FY 2017 - \$564,000 (CMAQ) FY 2017 - \$188,000 (L) \$752,000	
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U-3467 UNION PROJ.CATEGORY REGIONAL	NC 84, NC 16 TO SR 1008 (WAXHAW-INDIAN TRAIL ROAD) IN WESLEY CHAPEL. CONSTRUCT FOUR LANE ROADWAY, PART ON NEW LOCATION. <u>TO ALLOW ADDITIONAL TIME FOR PLANNING DELAY RIGHT-OF-WAY FROM FY 17 TO FY 18.</u>	RIGHT-OF-WAY UTILITIES CONSTRUCTION	FY 2018 - \$15,250,000 (STBG) FY 2018 - \$800,000 (STBG) FY 2019 - \$32,500,000 (STBG) \$48,550,000	
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* INDICATES FEDERAL AMENDMENT

REVISIONS TO THE 2016-2025 STIP

HIGHWAY PROGRAM
STIP MODIFICATIONS

DIVISION 10

U-5114	HUNTERSVILLE, INTERSECTION OF US 21 AND GILEAD	RIGHT-OF-WAY	FY 2017 -	\$3,350,000	(BA)
MECKLENBURG	ROAD IN HUNTERSVILLE. CONSTRUCT	UTILITIES	FY 2017 -	\$800,000	(BA)
PROJ.CATEGORY	INTERSECTION IMPROVEMENTS, INCLUDING BICYCLE	CONSTRUCTION	FY 2018 -	\$3,850,000	(BA)
TRANSITION	AND PEDESTRIAN ACCOMMODATIONS.		FY 2018 -	<u>\$2,400,000</u>	(T)
				\$10,400,000	
	<u>REPLACE STP-DA AND ASSOCIATED MATCHING FUNDS WITH BONUS ALLOCATION FUNDS. ADD TRUST FUNDS TO COMPLETE WORK PROPOSED UNDER U-5771.</u>				

DIVISION 13

I-5809	I-40, MILEMARKER 86.4 TO MILEMARKER 92.8.	CONSTRUCTION	FY 2017 -	\$2,250,000	(NHPIM)
McDOWELL	PAVEMENT REHABILITATION.		FY 2018 -	<u>\$2,250,000</u>	(NHPIM)
PROJ.CATEGORY	<u>TO ALLOW ADDITIONAL TIME FOR DESIGN DELAY</u>			\$4,500,000	
STATEWIDE	<u>CONSTRUCTION FROM FY 16 TO FY 17.</u>				

I-5833	I-40, BUNCOMBE COUNTY LINE TO SR 1103 (SOUTH	CONSTRUCTION	FY 2017 -	\$3,000,000	(NHPIM)
McDOWELL	CATAWBA AVENUE / BAT CAVE ROAD). PAVEMENT		FY 2018 -	<u>\$3,000,000</u>	(NHPIM)
PROJ.CATEGORY	REHABILITATION.			\$6,000,000	
STATEWIDE	<u>TO ALLOW ADDITIONAL TIME FOR DESIGN DELAY</u>				
	<u>CONSTRUCTION FROM FY 16 TO FY 17.</u>				

I-5892	FUTURE I-26, MILEMARKER 18 TO MILEMARKER 12.5.	CONSTRUCTION	FY 2017 -	<u>\$6,000,000</u>	(NHPIM)
BUNCOMBE	PAVEMENT REHABILITATION.			\$6,000,000	
PROJ.CATEGORY	<u>TO ALLOW ADDITIONAL TIME FOR DESIGN DELAY</u>				
STATEWIDE	<u>CONSTRUCTION FROM FY 16 TO FY 17.</u>				

R-5528A	NEW ROUTE, CONSTRUCT ACCESS ROAD OFF SR	CONSTRUCTION	FY 2017 -	\$170,000	(APD)
MITCHELL	1129 (HENREDON ROAD) FROM THE END OF PHASE I			\$170,000	
PROJ.CATEGORY	PROJECT.				
EXEMPT	<u>TO ALLOW ADDITIONAL TIME FOR DESIGN DELAY</u>				
	<u>CONSTRUCTION FROM FY 16 TO FY 17.</u>				

DIVISION 14

B-5550	BREVARD, REPLACE BRIDGE 870102 ON RAILROAD	RIGHT-OF-WAY	FY 2017 -	\$120,000	(STPON)
TRANSYLVANIA	AVENUE OVER KINGS CREEK. .		FY 2017 -	\$30,000	(L)
PROJ.CATEGORY	<u>TO ALLOW ADDITIONAL TIME FOR PLANNING AND</u>	CONSTRUCTION	FY 2017 -	\$520,000	(STPON)
DIVISION	<u>DESIGN DELAY RIGHT-OF-WAY FY 16 TO FROM FY 17.</u>		FY 2017 -	<u>\$130,000</u>	(L)
				\$800,000	

* INDICATES FEDERAL AMENDMENT

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STIP MODIFICATIONS

DIVISION 14

U-5105	HENDERSONVILLE, NC 225/SR 1164 (ERKWOOD DRIVE)/SR 1779(SHEPHERD STREET) IN HENDERSONVILLE. IMPROVE INTERSECTION.	RIGHT-OF-WAY CONSTRUCTION	FY 2017 - FY 2018 -	\$200,000 \$2,150,000	(STBG) (STBG)
PROJ.CATEGORY	<u>TO ALLOW ADDITIONAL TIME FOR PLANNING DELAY</u>			\$2,350,000	
TRANSITION	<u>RIGHT-OF-WAY FY 16 TO FROM FY 17.</u>				
U-5872	US 25 (HENDERSONVILLE ROAD), SR 1545 (CANE CREEK ROAD) TO SR 1006 (HOWARD GAP ROAD). CONSTRUCT ROADWAY IMPROVEMENTS.	ENGINEERING RIGHT-OF-WAY CONSTRUCTION	FY 2016 - FY 2016 - FY 2017 - FY 2017 - FY 2017 - FY 2017 -	\$154,000 \$39,000 \$20,000 \$5,000 \$1,555,000 \$389,000	(STBGDA) (L) (STBGDA) (L) (STBGDA) (L)
PROJ.CATEGORY	<u>TO ALLOW ADDITIONAL TIME FOR DESIGN DELAY</u>				
EXEMPT	<u>RIGHT-OF-WAY FY 16 TO FROM FY 17.</u>				
				\$2,162,000	

STIP DELETIONS

DIVISION 3

* EB-5799	SR 1167 (PERSIMMON ROAD), BAY TRAIL DRIVE TO NC 179 (BEACH DRIVE). CONSTRUCT SIDEWALK.	CONSTRUCTION	FY 2021 - FY 2021 -	\$146,000 \$37,000	(STBG) (L)
BRUNSWICK	<u>DELETE AT THE REQUEST OF TOWN OF CALABASH.</u>			\$183,000	
PROJ.CATEGORY					
DIVISION					

ITEM N SUMMARY

ADDITIONS	9 PROJECTS	\$14,931,000
MODIFICATIONS	42 PROJECTS	
DELETIONS	1 PROJECTS	\$183,000
	52 PROJECTS	\$14,748,000

* INDICATES FEDERAL AMENDMENT

Thursday, October 06, 2016

NCDOT October 6, 2016 Board of Transportation Agenda

SUMMARY: There are a total of 28 Agreements for approval by the Board of Transportation.

Statewide

United States Army Corps of
Engineers (USACE)

This is a Special Reimbursement Agreement for expenditure of funds contributed by the NCDOT to expedite review of NCDOT permits under the jurisdiction of the Department of the Army. The NCDOT and the USACE agree to maintain up to two (2) positions in the Wilmington District, USACE Office. Reimbursement shall be made in five (5) annual installments and shall provide total funding in the amount not to exceed \$1,800,000 over the next five year period beginning October 1, 2016.

North Carolina Railroad Company
(NCRR)
Norfolk Southern
Railway Company (NS)
P-5201

On September 21, 2012, the Department, NCRR, and NS entered into a Rail Master Project Construction and Maintenance Agreement (MPCMA) detailing the terms for construction of all Piedmont Improvement Program (PIP) projects. This amendment to the MPCMA provides for an amended date for: (1) completion of all project work, (2) submission of all Post Construction Drawings, (3) submission of final itemized invoices for all project work, (4) final payments after completion of all projects and/or components, and (5) reconciliation at final invoice and program close out. There will be no additional project cost to the Department and all project work will be completed for reimbursement by FRA to NCDOT by September 30, 2017. All other provisions of the MPCMA executed on September 21, 2012 shall remain the same.

Division 4

Town of Nashville
Nash County
80015
75011

This Project consists of the installation of sidewalk on the south side of Eastern Avenue (US 64 Business) from Lowes Foods to east of SR 1003. This Supplemental Agreement is to amend the Project scope to include installation of curb and gutter, sidewalk, paving, etc., and removal of existing elements; and to increase funding. The Department's original participation is was \$175,000. The Department will reimburse the Municipality an additional amount not to exceed \$106,100 for a total amount of \$281,100. This agenda item supersedes the item that was approved by the BOT on May 5, 2016.

NCDOT October 6, 2016 Board of Transportation Agenda

Division 5

City of Durham
Durham County
EB-5703
51049.1.F1
51049.3.F1

This Project consists of sidewalk and pedestrian improvements on both sides of LaSalle Street from Kangaroo Drive to US 70 Business and on one-side of LaSalle Street from Hillsborough Road to Sprunt Avenue. The Municipality is responsible for all phases of the Project. The Department shall reimburse 80% (\$489,000) of approved eligible costs from the STP-TAP funds allocation. The Municipality will be responsible for providing the 20% (\$122,000) non-federal match for the funds authorized and all costs that exceed the total estimated cost.

City of Raleigh
Wake County
W-5601G
50138.3.9

This Project consists of roadway improvements to SR 1007 (Poole Road) at SR 2967 (New Hope Road) in Raleigh. 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 \$230,000.

City of Durham
Durham County
EB-5704
51050.1.F1.1
51050.3.1

This Project consists of sidewalk and pedestrian improvements on one side of Raynor Street from North Miami Boulevard to North Hardee Street. The Municipality is responsible for all phases of the Project. The Department shall reimburse 80% (\$240,000) of approved eligible costs from the STP-TAP funds allocation. The Municipality will be responsible for providing the 20% (\$60,000) non-federal match for the funds authorized and all costs that exceed the total estimated cost.

North Carolina State University,
Clean Energy Technology Center
(CETC)
Wake County
C-5702A, 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 Clean Energy Technology Center (CETC) at NC State University. The Department shall reimburse 80% of approved eligible costs from CMAQ funds, not to exceed \$4,494,500. The CETC will be responsible for the 20% (\$1,123,624) nonfederal match for the CMAQ funds authorized and all costs that exceed the total estimated cost of \$5,618,124.

NCDOT October 6, 2016 Board of Transportation Agenda

Division 5, cont.

City of Durham
Durham County
EB-5715
50411.1.1
50411.3.1

This Project consists of sidewalk and pedestrian improvements on east side of North Duke Street from Murray Avenue to US 501 Business to fill in existing gaps. The Municipality is responsible for all phases of the Project. The Department shall reimburse 80% (\$1,059,200) of approved eligible costs from the STP-TAP funds allocation. The Municipality will be responsible for providing the 20% (\$264,000) non-federal match for the funds authorized and all costs that exceed the total estimated cost.

City of Durham
Durham County
EB-5708
50404.1.1
50404.3.F1

This Project consists of sidewalk and pedestrian improvements on the south side of NC 54 from NC 55 to Research Triangle Park's western limit. The Municipality is responsible for all phases of the Project. The Department shall reimburse 100% (\$300,000) of approved eligible costs from the Safe Routes to School (SRTS) funds allocation. The Municipality will be responsible for all costs that exceed the total estimated cost.

City of Raleigh
Wake County
C-5604 OB
43714.1.2
43714.3.4

This Project consists of the implementation of the Bike Share System to include the design, procurement and installation of approximately 30 stations and +/- 300 bicycles near Downtown Raleigh. The Municipality is responsible for all phases of the Project. The Department shall reimburse 80% of approved eligible costs from CMAQ funds, not to exceed \$1,548,800 and 80% of approved eligible costs from TAP funds, not to exceed \$100,000. The Department shall provide the 20% (\$25,000) state match for the TAP funds. The Municipality will be responsible for providing the 20% (\$387,200) non-federal match for the CMAQ funds authorized and all costs that exceed the total estimated cost of \$2,061,000.

Division 7

City of Greensboro
Guilford County
U-5532B
46297.2.F3
46297.3.F3

This Project consists of the construction of sidewalk and wheelchair ramps where none exists on both sides of Phillips Avenue and the marking and signage of crosswalks in Greensboro. This Supplemental Agreement is to increase funding for the Project. The Department's original participation was \$280,000. The Department agrees to reimburse the Municipality an additional \$80,463 (80%) for a total of \$360,463 in Transportation Alternatives Program (TAP) funds. The Municipality's original participation was \$70,000. The Municipality will provide an additional \$20,116 (20%) for a total of \$90,116 as their local match and all costs that exceed the total estimated costs.

NCDOT October 6, 2016 Board of Transportation Agenda

<p>Town of Hillsborough Orange County W-5143 45267.3.FD1</p>	<p>This Project consists of improving the horizontal alignment of a curve on SR 1004 (Efland Cedar Grove Road) north of the intersection with SR 1332 (Highland Farm Road). At the request of the Municipality, the Department will include reservoir road improvements along the same section as part of the work. The estimated cost of the reservoir project is \$1,040,544. The Department will participate in the amount of \$467,000 toward the Reservoir Road project. The Municipality is responsible for \$573,544 and any cost exceeding the estimated amount of \$1,040,544.</p>
<p>City of Greensboro Guilford County C-5555 E 45540.1.6 45540.2.6 45540.3.6</p>	<p>This Project consists of the construction of sidewalk along College Road on the east side from Guida Drive to Friendly Avenue and along New Garden Road on the west side from Friendly Avenue to Ballinger Road in Greensboro. The Municipality is responsible for all phases of the Project. This Supplemental Agreement is to increase funding. The Department shall participate in an additional amount not to exceed \$37,293 (80%) in CMAQ funds. The Municipality will be responsible for providing \$9,301 (20%) as their local match.</p>
<p>Division 9</p>	
<p>Town of Rural Hall Forsyth County R-2247EC 34409.3.23</p>	<p>This Project consists of reconstruction of the interchange at US 52 with NC 65 on the Winston-Salem Northern Beltway, including sidewalks on both sides of HWY 65 in Rural Hall. This Supplemental Agreement is to add new betterments and costs to the Project. The Municipality has requested that Anodized Rail, Bridge Façade, and Exterior Stained Girders decorative improvements be added. The Municipality shall reimburse the Department 100% of these additional cost estimated at \$59,142.</p>
<p>City of Winston-Salem Forsyth County R-2247CD 34409.3.23</p>	<p>This Design-Build Project consists of reconstruction of the US 421/SR 1891 (Peace Haven Road) Interchange on the Winston-Salem Northern Beltway. At the request of the Municipality, the Department shall include construction of pedestrian facilities on the west side of SR 1891 (Peace Haven Road) from Regents Village Drive to Ivystone Lane, and on the east side of SR 1891 (Peace Haven Road) from Villas Drive to the End of Construction limits just north of Ivystone Lane. The Municipality will pay a lump sum amount for construction of the sidewalk. The lump sum cost to the Municipality is \$23,872.</p>

NCDOT October 6, 2016 Board of Transportation Agenda

Division 9, cont.

City of Winston-Salem
Forsyth County
R-2247EC
34409.3.23

This Design-Build Project consists of construction of the US 52 (Future I-74)/NC 65 (Bethania – Rural Hall Road) Interchange on the Winston-Salem Northern Beltway. At the request of the Municipality, the Department shall include construction of pedestrian facilities along both sides of NC 65 (Bethania-Rural Hall Road) from the relocated Montroyal Road/DW1 intersection to a point just south of proposed Ramp B/Loop B; and Anodized Rail, Bridge Façades, and Exterior Stained Girders aesthetic betterments. The Municipality will pay a lump sum amount of \$13,041 for construction of the sidewalk; and a lump sum amount of \$80,493 for the Anodized Rail, Bridge Façade, and Exterior Stained Girders aesthetic betterments.

Division 10

Zoladz Construction Company
Co. Inc. (“Zoladz”)
Mecklenburg County

This Rail Lease Agreement is for the purpose of leasing property owned by the Department located at 520 Summit Avenue, Charlotte, NC to Zoladz for a term of ten (10) months for a total rental amount of eighteen thousand dollars (\$18,000.00). The property will be rented in an “as is” condition subject to the usual terms and conditions for the demise of state property under state law and be used during construction of the Charlotte Locomotive and Railcar Maintenance Facility. There will be no additional project cost to the Department.

City of Charlotte
Mecklenburg County
W-5601IK
50138.3.246

This Project consists of the widening of the I-485 Outer Loop ramp to NC 16 and for signal modifications. The Municipality shall design and modify the existing signal system between the I-485 Outer Loop ramp and NC 16. The Department shall reimburse the Municipality up to \$6,000 for the design and construction of the signal modification.

City of Mount Holly
Gaston County
U-3633
37649.3.FR1

This Project consists of NC 273 (South Main Street) from Tuckaseegee Road at Beatty Drive to Highland Street at A & E Drive in Mount Holly. 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 \$156,398.00.

NCDOT October 6, 2016 Board of Transportation Agenda

Division 10, cont.

City of Charlotte
Mecklenburg County
EB-5820
44840.1.1
44840.3.1

This Project consists of the installation of 20-24 B-cycle bike share stations in and around City Center. The Municipality will be responsible for all phases of the project. The Department will reimburse 80% of eligible costs from TAP funds not to exceed \$675,000. The Municipality shall be responsible for providing the 20% (\$168,750) non-federal match and all costs that exceed the total estimated cost of \$843,750.

City of Charlotte
Mecklenburg County
W-5601FL
50138.1.169

This Project consists of safety improvements to include the installation of traffic signals at the following locations: I-77 Southbound Ramp and Trade Street (SR 2407); I-77 Northbound Ramp and Westinghouse Boulevard (SR 1128); US 21 and Lakeview Road (SR 1212) and NC 24 and Old Concord Road (SR 2939). The Municipality shall participate in the design work of the Project. The Department agrees to reimburse the Municipality up to \$11,500 for their participation in the design work.

Division 11

Town of West Jefferson
Ashe County
EB-3314G
33935.2.7

This Project consists of pedestrian improvements at the intersection of North Jefferson Avenue and East Second Street ending at the intersection of East Second Avenue and Fifth Avenue. This Supplemental Agreement is to provide additional funding in the amount of \$130,000 in State Contingency Funds.

City of Lenoir
Caldwell County
EB-5806
46457.1.1
46457.2.1
46457.3.1

This Project consists of construction of sidewalk on Hospital Avenue between Harper Avenue and US 321. The Municipality shall be responsible for all phases of the Project. The Department will reimburse 80% of eligible expenses from TAP funds not to exceed \$800,000. The Municipality shall be responsible for providing the 20% (\$200,000) non-federal match and all costs that exceed the total estimated cost of \$1,000,000.

NCDOT October 6, 2016 Board of Transportation Agenda

Division 11, cont.

Piedmont & Atlantic Railroad, dba
Yadkin Valley Railroad
(YVRR)
Norfolk Southern Railway
Company, Inc. (NS)
Wilkes County
80000.1.4.30

This agenda item supersedes the YVRR Rail Freight Assistance Agreement agenda item that was approved at the June 2, 2016 Board of Transportation meeting. The original scope of work included rail replacement at 3 curves and a bridge rehabilitation at milepost K 87.9, for a total project cost of \$429,545, including \$107,386.26 for bridge rehabilitation. After further site review it was mutually determined between YVRR and the Department to rescope the project. The Agreement has been modified to remove the rail replacement and to increase the scope of work for the bridge rehabilitation. The total project cost for the bridge rehabilitation is now \$149,070. This increases the Department's participation from 12.5% or up to \$53,593, to 50% or up to \$74,535. All other provisions of the agreement approved at the June 2, 2016 Board of Transportation meeting shall remain the same.

Division 12

Catawba County
R-3100A
34522.3.FR3

This Project consists of improvements on NC 16 from north of SR 1814 (Caldwell Road) to SR 1895 (Tower Road). At the request of the County, the Department shall include provisions in the construction contract for the contractor to adjust and/or relocate county-owned water and sewer lines. The County shall reimburse the Department the entire cost of said utility work. The estimated reimbursement from the County is \$2,862,255.00.

Catawba County
R-3100B
34522.3.FR3

This Project consists of NC 16 from north of SR 1801 (Claremont Road) to north of SR 1814 (Caldwell Road). At the request of the County, the Department shall include provisions in the construction contract for the contractor to adjust and/or relocate county-owned water and sewer lines. The County shall reimburse the Department the entire cost of said utility work. The estimated reimbursement from the County is \$5,250,073.

Division 13

Buncombe County
EB-5774
46407.1.1
46407.2.1

This Project consists of a multi-use path along NC 251 (Riverside Drive) from SR 1684 (Elk Mountain Road) to Exit 25 on US 19/23/70. This Supplemental Agreement is to modify the funding source from STP-DA to TAP funds. The amount to be reimbursed, \$528,000 will not change. The County shall provide a 20% match and all costs that exceed the total available funding.

NCDOT October 6, 2016 Board of Transportation Agenda

Division 14

Eastern Federal Lands Highway
Division
Henderson County
R-5780
44909.1.1
44909.3.1

This Project consists of resurfacing North Mills River Road (SR 1345) in Henderson County, which is funded by Federal Lands Access Program (FLAP) funds. The Department is responsible for all phases of the work. The Department shall participate in a tapered match of 19.02%, or \$116,778.60. The total estimated project cost is \$593,893.

NCDOT October 6, 2016 Board of Transportation Agenda

SUMMARY: There are a total of 18 Agreements for informational purposes only.

Division 3

Town of Holden Beach
Brunswick County

This Agreement is to allow Disaster Related Debris Removal by the Municipality during a State of Disaster or Imminent Threat of Disaster and/or a State of Emergency. The Municipality shall remove and dispose of disaster related debris on all released State Routes. The Municipality shall apply directly to FEMA for reimbursement of eligible debris removal costs.

Town of Leland
Brunswick County
U-5534 K
44096.1.F12
44096.2.F12
44096.3.F12

This Project consists of the construction of 5-foot wide concrete sidewalk adjacent to Old Fayetteville Road from Ricefield Branch Road to the Hwy 74/76 overpass after Glendale Drive with connections to Leland Middle School and the surrounding neighborhoods. This Supplemental Agreement extends the completion date for the Project to March 31, 2018, in lieu of March 31, 2016.

Town of St. James
Brunswick County

This Agreement is to allow Disaster Related Debris Removal by the Municipality during a State of Disaster or Imminent Threat of Disaster and/or a State of Emergency. The Municipality shall remove and dispose of disaster related debris on all released State Routes. The Municipality shall apply directly to FEMA for reimbursement of eligible debris removal costs.

Division 4

The Shoppes at Glen Laurel,
LLC
Johnston County
36249.3683

This Project consists of installation and modification of a traffic signal at the NC 42/Glen Laurel Road intersection [04-1083], including wireless connectivity. The Developer shall reimburse the Department 100% of the cost of the Department's review and inspection of the signal. The estimated reimbursement is \$7,000.

Town of Faison
Duplin County
46305.1.18

This Project consists of plantings along US 117 (Center Street) from Soloman Street to College Street. The Department shall develop the landscape design, prepare plans and site and install the plantings. The Municipality shall assume maintenance of the plantings after one year.

NCDOT October 6, 2016 Board of Transportation Agenda

Division 5

Raleigh Durham Airport
Authority
Wake County
36249.3685

This Project consists of the fabrication and installation of three overhead signs, two located on Aviation Parkway and one on Airport Boulevard. The Department will perform the work. The Airport Authority shall reimburse the Department 100% of the actual cost of the work. The estimated reimbursement is \$21,500.

Durham Public Schools
Durham County
36249.3686

This Project consists of safety improvements at Jordan High School Crossing, including fence, school flashers and a concrete island. The Department shall be responsible for all phases of the work. Durham Public Schools shall reimburse the Department 100% of the actual cost of the work. The estimated reimbursement is \$35,000.

Division 6

Capital Area Metropolitan
Planning Organization (CAMPO)
Wake County

This Memorandum of Agreement (MOA) establishes the terms and conditions for installation, data access, ownership and maintenance of Department specialized pedestrian and cyclists counting equipment, related to the "North Carolina's Non-Motorized Volume Data Program" research project in Apex, Cary, Raleigh and Wake Forest. CAMPO will be responsible for equipment installation and routine maintenance costs through the useful life of the equipment as defined in the agreement.

City of Whiteville
Columbus County
2300003140

The Project consists of the construction of a sewer system on SR 1170 (Prison Camp Road) to connect the NCDOT's County Maintenance Facility to the City of Whiteville sewer system, betterments including lift stations pumps and a pressure force main. The Department shall be responsible for all phases of the work. Upon completion of the Project the Municipality shall reimburse the Department a lump sum amount of \$95,000 for betterments. Upon completion of the Project the Municipality shall assume all maintenance and cost of the sewer system, not on Department property.

NC Piedmont Natural Gas
Cumberland County
50079.3.FD1

The Project consists of a right turn lane on SR 2220 (Tom Starling Road) at SR 2333 (Corporation Drive) in conjunction with the Project to realigning two curves along SR 2220 between US 301 and NC 87, including widening, resurfacing and a left turn lane at SR 2333. The Department shall be responsible for all phases of the Project. The Developer shall reimburse the Department \$87,500 for work performed by the Department. The estimated total cost of Project is \$87,500. This Agreement supersedes the prior board approval on August 4, 2016.

NCDOT October 6, 2016 Board of Transportation Agenda

Division 9

Town of Spencer
Rowan County
44793

This Project consists of drainage improvements on Fourth Street between US 29 (Salisbury Avenue) and Iredell Avenue in the Town of Spencer. The Municipality is responsible for all phases of the work. The Department shall participate in the actual costs up to a maximum amount of \$390,000. Costs which exceed this amount shall be borne by the Municipality. Estimated costs are \$434,647.

Division 10

Intertape Polymer Group
Cabarrus County
R-5778
44799.3.1

This Project consists of the widening and strengthening of Bill McGee Road (SR 3049) for 2,000 feet and the extension of Bill McGee Road across the railroad at an approved crossing to the location of the new industrial site. The Developer will be responsible for planning and design, and right of way acquisition. The Department shall be responsible for utility relocations and construct the Project. The Department shall participate in the actual construction costs of the Project in an amount not to exceed \$800,000. Costs which exceed this amount shall be borne by the Developer.

Cabarrus County
44831

This Project consists of improvements on International Drive (SR 1429) at the intersections with Poplar Tent Road (SR 1394), Fortune Drive, and Davidson Highway (NC 73) related to a proposed new logistics facility on Fortune Drive in the International Business Park. The improvements will consist of widening for a lane extension, construction of a right turn lane and a receiving lane, and intersection modifications to allow for future dual left turn lanes on Davidson Highway (NC 73) to International Drive (SR 1429). 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 \$192,500. Costs which exceed this amount shall be borne by the County.

Harris Square, LLC
Mecklenburg County
36249.3691

This Project consists of the modification of the existing signal at the intersection of NC 49 and Roberta Road (SR 1304) and the installation of a new signal at the intersection of Roberta Road (SR 1304) and New Access Drive in Harrisburg. The Developer shall reimburse the Department 100% of the cost of the Department's review and inspection of the signal. The estimated reimbursement is \$10,000.

NCDOT October 6, 2016 Board of Transportation Agenda

Division 10, cont.

Forestar Group Inc.
Mecklenburg County
36249.3692

This Project consists of the modification to an existing signal at the intersection of North Old Statesville Road (NC 115) and Ramah Church Road (SR 2439) in conjunction with roadway improvements to facilitate traffic flow into Walden Subdivision in Huntersville. The Department will review the traffic signal plans and inspect the traffic signal installation. The Developer shall reimburse the Department 100% of the Department's work. The estimated reimbursement is \$5,000.

Division 13

Ingles Markets, Inc.
Buncombe County
36249.3690

This Project consists of the review and inspection of a new traffic signal at the main entrance to Ingles Markets located on US 70 in Swannanoa. The Department will review the traffic signal plans and inspect the traffic signal installation. The Developer shall reimburse the Department 100% of the Department's work. The estimated reimbursement is \$7,500.

FHWA – Eastern Federal Lands
Highway Division (EFL)
U.S. Department of the Interior -
National Parks Service (NPS)
FHWA – NC Division Office
(FHWA)
Buncombe County
I-4700B
36030.1.FS3

This Project consists of the widening of I-26 from NC 146, Long Shoals Road (Exit 37) to I-40 in Buncombe County. This Supplemental Agreement is to extend the period of performance to September 30, 2017. This agreement provides for the preliminary design and environmental documentation to be performed by the EFL and the NPS in coordination with FHWA and the Department to obtain the NPS Design Advisory Board approval and to meet NEPA and NPS compliance for the Blue Ridge Parkway bridge replacement over I-26, near Milepost 36, in Buncombe County. The estimated cost of the preliminary design and environmental services is \$400,000. The Department shall provide 80% of the costs in Federal National Highway Performance Program (NHPP) Funds with 20% in State Matching Funds.

Division 14

Tryon International Equestrian
Center
Polk County
R-5756
46441.3.1

This Project consists of revising an original approved design of the project and constructing the new design with cost participation. The Center shall be responsible for the revised design. The Department shall participate in the Project up to a maximum amount of \$1,831,299.20. The Center shall reimburse the Department for the estimated cost of construction for the revised design. The estimated reimbursement from the Center is \$320,000.

NCDOT October 2016 Board of Transportation Agenda

Approval of Municipal Street System Changes

There will be no municipal street system changes presented for approval at the October 2016 Board meeting.

NCDOT October 2016 Board of Transportation Agenda

<u>No.</u>		<u>Enacted Page No.</u>
1	Preliminary Right of Way Plans	R - 1 thru R - 3
2	Final Right of Way Plans	R - 4 thru R - 5
3	Revisions of Final Right of Way Plans	R - 6
4	Advance Acquisition Approval for Highway Right of Way	R - 7
5	Approval of Conveyance of Highway Right of Way Residues	R - 8
6	Approval of Conveyance of Surplus Highway Right of Way	R - 9
7	Approval of Revision in Control of Access	R - 10
8	Advance Acquisition Approval for Highway Right of Way	R - 11

Preliminary Right of Way Plans

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

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

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

Lenoir County; I.D. No. R-5703; Project No. 46375.2.1:
NC 148 (Harvey Parkway) from NC 58 to NC 11

Greene County; I.D. No. W-5601FR; Project No. 50138.2.175:
NC 123 at SR 1400 (Fourway Road / Ormondsville Road) safety improvements

(Division 3)

New Hanover County; I.D. No. B-5236; Project No. 42840.2.1:
Bridge No. 19 over Lords Creek on SR 1100

(Division 4)

Johnston County; I.D. No. R-5769; Project No. 46448.2.1:
SR 1913 (Gordon Road) from US 70 Business to proposed Noco Nordisk Facility

Edgecombe County; I.D. No. U-4762; Project No. 39930.2.2:
SR 1250 (Springfield Road) from US 64 Alternate to SR 1243 (Leggett Road)

Wayne County; I.D. No. R-5719; Project No. 50473.2.1:
US 117 at SR 1135 (Country Club Road)

Preliminary Right of Way Plans (continued)

(Division 4) (continued)

Johnston County; I.D. No. R-3825B; Project No. 34552.2.4:
NC 42 from East of SR 1902 (Glen Laurel Road) to SR 1003 (Buffalo Road)

Johnston County; I.D. No. B-4771; Project No. 38543.2.1:
Bridge No. 11 over Mill Creek on SR 1201

(Division 5)

Wake County; I.D. No. W-5601CR; Project No. 50138.2.97:
US 70 Business at SR 2555 (Raynor Road/Auburn-Knightdale Road)

Person County; I.D. No. B-5327; Project No. 46041.2.1:
Bridge No. 49 over South Hyco Creek on SR 1300

Vance County; I.D. No. B-4945; Project No. 39971.2.1:
Bridge No. 36 over Kerr Lake on SR 1374 (Anderson Creek Road)

(Division 8)

Hoke County; I.D. No. B-5755; Project No. 45711.2.1:
Bridge No. 57 over Puppy Creek on SR 1406 (Rockfish Road)

Montgomery County; I.D. No. B-5362; Project No. 46077.2.1:
Bridge No. 53 over Drowning Creek on NC 73

Randolph County; I.D. No. U-5758; Project No. 50172.2.1:
US 220 Business (Fayetteville Street) at intersection of US 220 Business and Presnell Street in Asheboro

Randolph County; I.D. No. W-5601EK; Project No. 50138.2.142:
US 311 from SR 1524 (Beckerdite Road) to SR 1525 (Beeson Farm Road)

(Division 9)

Forsyth County; I.D. No. U-4741OJ; Project No. 39745.2.F27:
Rural – NC 65 (Runningbrook Lane to Norvasa Street)

Forsyth County; I.D. No. R-2247EA; Project No. 34409.2.27:
Winston-Salem Northern Beltway from NC 67 to South of US 52 (Legal Services Only)

(Division 10)

Cabarrus County; I.D. No. C-4916C; Project No. 44016.2.2:
Kannapolis – Sidewalk along Oakwood Avenue around Shady Brook School

Mecklenburg County; I.D. No. C-5533; Project No. 45506.2.F1:
Charlotte – the Intersection of SR 5469 (Shopton Road) and SR 1156 (Beam Road)

Mecklenburg County; I.D. No. U-5804B; Project No. 44376.2.2:
SR 3448 (South Trade Street) from Four Mile Creek on Weddington Road

Preliminary Right of Way Plans (continued)

(Division 10) (continued)

Mecklenburg County; I.D. No. I-4750AC; Project No. 40099.2.8:
I-77 at Exit 30 (Griffith Street) interchange, construct roundabouts at Northbound and Southbound Ramp Terminal

(Division 11)

Caldwell County; I.D. No. R-5745; Project No. 50200.2.1:
Intersection of US 64/NC 90/NC 18 (Wilkesboro Boulevard) and NC 64/NC 90 (Taylorsville Road)

(Division 12)

Iredell County; I.D. No. C-5529; Project No. 51043.2.F1:
Intersection of NC 115 and Faith Road – Campus Lane in Morrisville, Realign Faith Road to tie into existing NC 115/Campus Lane Intersection and construct dedicated turn lanes on Faith Road and Campus Lane approaches to the intersection

Iredell County; I.D. No. B-4982; Project No. 40159.2.1:
Bridge No. 38 over Third Creek on US 21-NC115

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 1)**Project No. 46478.2.1; Tyrrell County; I.D. No. B-5936:**

Bridge Rehabilitation on Bridge No. 7 over Alligator River on US 64 with the right of way indicated upon the final plans for said project.

(Division 8)**Project No. 46074.2.2; Randolph County; I.D. No. B-5360:**

Grading, drainage, paving and structures on Bridge No. 374 over Sandy Creek on SR 2481 (Low Bridge Road) with the right of way indicated upon the final plans for said project.

Project No. 45538.2.1; Randolph County; I.D. No. B-5546:

Grading, drainage, paving and structures on Bridge No. 307 over Mount Pleasant Creek on SR 2481 (Low Bridge 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. 8 over Brown Creek on SR 1627 with the right of way indicated upon the final plans for said project.

Project No. 39010.2.2; Cabarrus County; I.D. No. U-3440:

Grading, drainage, paving, signals, structures, culverts and retaining wall in Kannapolis – NC 3 from proposed West Side Bypass (U-2009) to SR 1691 (Loop Road) with the right of way indicated upon the final plans for said project.

Final Right of Way Plans (continued)

(Division 10) (continued)

Project No. 40373.2.FR2; Cabarrus County; I.D. No. U-4910B:

Grading, drainage, paving, widening and signals on SR 1445 (Derita Road) from Aviation Boulevard to SR 1394 (Poplar Tent Road) (U-4910A) with the right of way indicated upon the final plans for said project.

(Division 11)

Project No. 46095.2.1; Avery County; I.D. No. B-5380:

Grading, drainage, paving and structure on Bridge No. 141 over Fall Branch on SR 1114 (Big Plumtree Creek Road) with the right of way indicated upon the final plans for said project.

(Division 14)

Project No. B-5125; Macon County; I.D. No. B-5125:

Grading, drainage, paving, signal and structure on Bridge No. 22 over Little Tennessee River on US 441 Business 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 5)

Project No. 34915.2.1; I.D. No. U-3308; Durham County:

Final Right of Way plans approved on the minutes of the June 2, 2016 Board of Transportation Meeting. Revised additional right of way, easements or control of access shown on plan sheet(s) 12 as presented at the October 6, 2016 Board of Transportation Meeting.

Approval of Conveyance of Wetland Mitigation Site

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

(Division 7)

Project 8.1380501, R-2241

Project 40547.2.1, R-4906

Projects 34418.2.3/34429.2.4, R-2303AB/R-2413C

Riverbend Mitigation Site

Caswell County

The Department received a request for the disposal of a residue property of approximately 193 acres. The NC Wildlife Resources Commission has requested that the Department transfer this property to them for the existing NC Wildlife Game Land Program along the Dan River. The grantee will be required to provide the Department a conservation easement and easement of ingress and egress. The NC Wildlife Resources Commission has agreed to this conveyance for no monetary consideration.

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 34431.2.2, Parcel R-2417AA 029, US 421/NC 87 (Sanford Bypass) from West of SR 1400 to West of US 1/15-501

Lee County

Conveyance of an approximate 0.400-acre residue area to Winfred R. Tysor and Hazel S. Tysor, the highest bidders after public advertisement, for the high bid amount of \$5,700.00.

(Division 10)

Project 8.1674902, Parcel R-0203A 058, NC 24/27 from SR 3128 (Lawyers Road) to SR 3137 in Charlotte

Mecklenburg County

Conveyance of an approximate 0.315-acre residue area to the H. Dale Rexrode, the highest bidder after public advertisement, for the high bid amount of \$10,000.00.

Approval of conveyance of Surplus Highway Right of Way

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

(Division 5)

**Project 8.1403901, Parcel R-2906 063, NC 55 from US 64 in Wake County to SR 1121 (Cornwallis Road) in Durham County
Wake County**

Abandonment of an approximate 0.212-acre permanent drainage easement area to the D. Cooke Properties, LLC for no monetary consideration.

(Division 6)

**Project 8.2326302, Intersection of Player Avenue and Owen Drive
Cumberland County**

Abandonment of an approximate 0.212-acre permanent easement area to Emily, LLC for no monetary consideration.

Approval of Revision in Control of Access

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

(Division 11)

Project 6.759003T, Parcel R-0429BA 016, US 421 near SR 1655

Watauga County

Grant of a revision in the existing control of access to Sabin Carroll for a shift in the access break along US 421 near SR 1655 (Landfill Road) just outside the city limits of Boone, for no monetary consideration.

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 5

**Property of James E. Grem A/W Oleta
I.D. No. R-2829, Parcel #900,
WBS 35517.2.1, F. A. Project N/A,
County of Wake**

CONVEYANCE OF ADVANCE ACQUISITION 1 PROJECT(S) \$0.00

R-ITEM SUMMARY 41 PROJECT(S) TOTAL: \$0.00

**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 October 2016 Board meeting.

There are no Comprehensive Transportation Plans to be presented for approval at the October 6, 2016 Board of Transportation Meeting.

RESOLUTION FOR FIRST SERGEANT J.S. HACKETT & PATROLMAN J.A. PARKER

WHEREAS, First Sergeant J.S. Hackett and Patrolman J.A. Parker were law enforcement officers who tragically lost their lives on June 19, 1974 while serving the City of Reidsville and Rockingham County; and

WHEREAS, on that fateful day, the helicopter in which they were flying as they surveyed the road crashed in the area of McCoy Road in Reidsville; and

WHEREAS, First Sergeant Hackett and Patrolman Parker made the ultimate sacrifice while in service to the residents of Rockingham County and the State of North Carolina; and

WHEREAS, the renaming of the McCoy Road Bridge near the crash site is a fitting tribute to these men who served with diligence and honor. They may be gone but are not forgotten by their families and many friends who still reside in Rockingham County as well as the citizens of the city and state; and

WHEREAS, the City of Reidsville requests to rename the McCoy Road Bridge in honor and memory of First Sergeant J.S. Hackett and Patrolman J.A. Parker.

NOW, THEREFORE, BE IT RESOLVED:

That the North Carolina Board of Transportation names the McCoy Road Bridge over Lake Reidsville in Rockingham County as the *First Sergeant John S. Hackett & Patrolman James A. Parker Bridge*.

That appropriate signs will be erected at a suitable time.

Adopted, this the 6th day of October 2016 by the North Carolina Board of Transportation.


Chairman


Secretary of Transportation

RESOLUTION FOR KELLY MICHAEL KINCAID

WHEREAS, Kelly Michael Kincaid served the State of North Carolina, Burke County and the City of Morganton for more than 19 years as a Lieutenant and Shift Commander with the Burke County Sheriff's Office, a reserve police officer with the North Carolina Department of Health and Human Services Police Department at Broughton Hospital and a reserve firefighter with the Morganton Department of Public Safety; and

WHEREAS, on March 16, 2006, Kelly Michael Kincaid, as a reserve firefighter for the Morganton Department of Public Safety, responded to the scene of a residential structure fire, and collapsed on the scene while performing fire suppression duties and on March 19, 2006 passed away as a result thereof; and

WHEREAS, Kelly Michael Kincaid performed his law enforcement and reserve firefighting duties with courage, honor and dignity and gave his life in the execution of those duties; and

WHEREAS, a bridge currently under construction on Enola Road in the City of Morganton, North Carolina lays in close proximity to both the Burke County Sheriff's Office and the grounds of Broughton Hospital and is yet unnamed; and

WHEREAS, Chapter XXIII of the North Carolina Blue Knights, Morganton/Burke Lodge #23 of the Fraternal Order of Police, the Morganton Department of Public Safety, the Burke County Sheriff's Office and the North Carolina Department of Health and Human Services Police Department at Broughton Hospital request to name the bridge currently under construction on Enola Road in the City of Morganton in memory of Kelly Michael Kincaid, and in honor of his professional and personal sacrifice.

NOW, THEREFORE, BE IT RESOLVED:

That the North Carolina Board of Transportation names the bridge on Enola Road over I-40 in Burke County as the ***Kelly M. Kincaid Bridge***.

That appropriate signs will be erected at a suitable time.

Adopted, this the 6th day of October 2016 by the North Carolina Board of Transportation.


Chairman


Secretary of Transportation

DBE/MB/WB LETTING SUMMARY

Federal Contract Awards Summary Oct 2015 let through Sep 2016 let
Close Out Federal Fiscal Year 2015/2016

	Value Of Contract	DBE Goals Set		DBE Participation Submitted		DBE Participation Split			
						MB		WB	
						\$	%	\$	%
Monthly	99,133,032.30	11,467,626.06	11.6	11,884,420.80	12.0	2,616,467.00	2.6	9,267,953.80	9.3
FY to Date	798,170,759.33	79,788,299.02	10.0	78,607,202.80	9.9	22,646,314.40	2.8	55,960,888.40	7.0

State Contract Awards Summary Jul 2016 let through Sep 2016 let
State Fiscal Year 2016/2017

	Value Of Contract	MB Goals Set		MB Participation Submitted		WB Goals Set		WB Participation Submitted	
		\$	%	\$	%	\$	%	\$	%
		Monthly	3,932,441.74	157,297.67	4.0	157,521.60	4.0	196,622.09	5.0
FY to Date	133,703,090.58	2,919,614.31	2.2	3,634,527.60	2.7	4,881,842.04	3.7	6,620,438.30	5.0

Letting Date(s): September 20, 2016
Award Date: Oct 06, 2016
Award Subject to BOT's Approval



Corridor K



Brian C. Burch, P.E.
Division Project Development Engineer



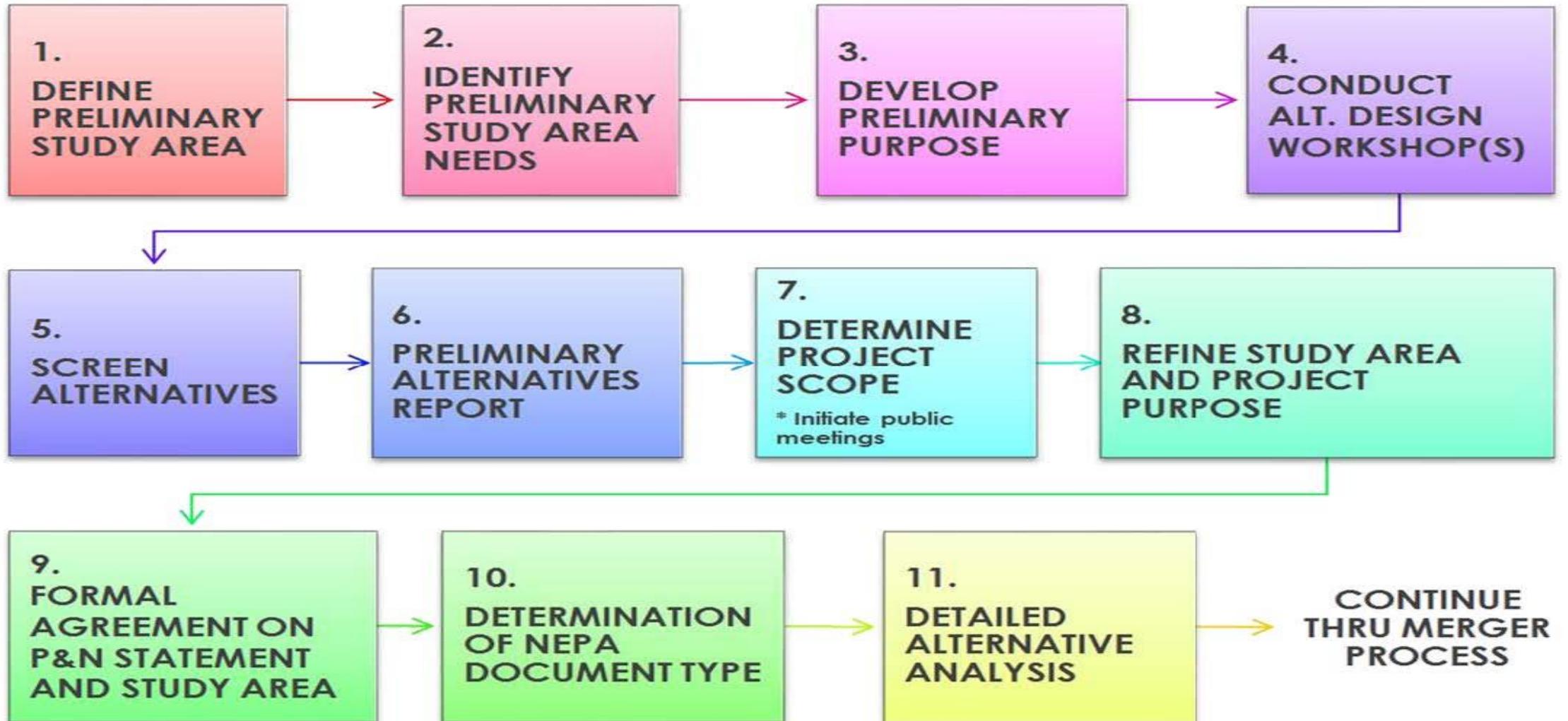
Corridor K

- Runs 127.7 miles from I-40 near Waynesville, NC to I-75 in Cleveland, TN
- 83.9 miles through North Carolina
- 18.1 miles to complete in North Carolina
- 43.8 miles in Tennessee
- Planning is underway on the section from Stecoah to Andrews

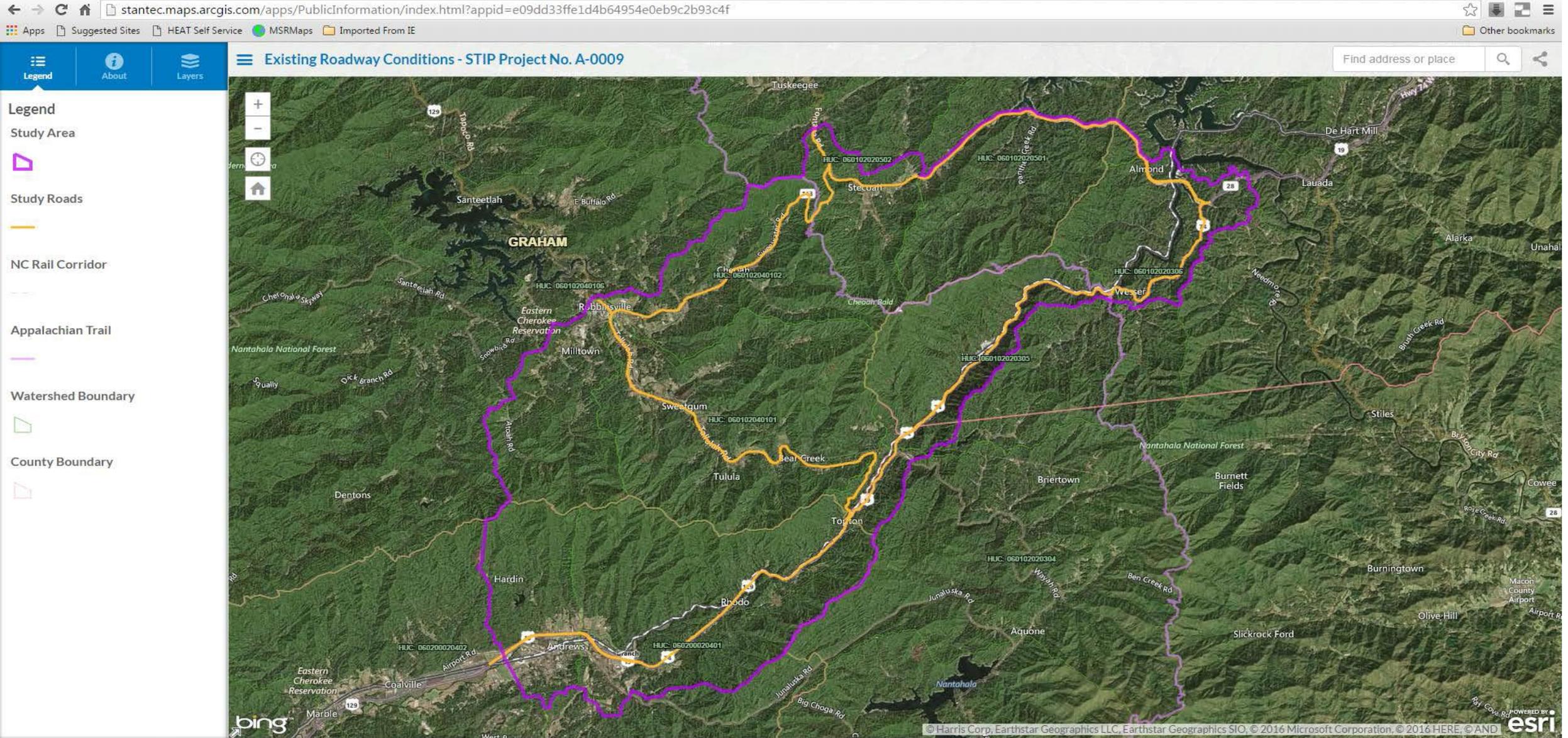


A-0009 Decision-Making Approach

(Concept Initiated Nov 2015 Leadership Meeting)



Preliminary Study Area



Preliminary Needs (5/19/16)

- Physical Needs

- Limited roadway options
- Steep grades, narrow lane widths, and sharp curves
- Over-capacity

- Mobility

- Improved access to employment, medical facilities, commercial centers, and educational facilities
- All paved roads into and out of Graham County are primarily two-lane and there is an inability to pass slower vehicles over substantial distances
- Impaired mobility
- Emergency medical service response times

Preliminary Purpose

The proposed project purpose is to provide the transportation infrastructure necessary for the well-being **of local residents and regional traffic** by improving vehicular travel time reliability **and safety** between the existing four-lane section on NC 28 at Stecoah and the existing four-lane section on US 74 east of Andrews; providing an average travel speed of 50 mph, consistent with the Appalachian Development Highway System criteria, and in a manner that is sensitive to the natural environment.



Completed Steps

March – August 2016

1.
DEFINE
PRELIMINARY
STUDY AREA

2.
IDENTIFY
PRELIMINARY
STUDY AREA
NEEDS

3.
DEVELOP
PRELIMINARY
PURPOSE

4.
CONDUCT
ALT. DESIGN
WORKSHOP(S)



Next Steps and Decisions

5. SCREEN ALTERNATIVES

- Evaluate options based on criteria such as improvement, cost, feasibility, and impacts utilizing Quantm software

6. PRELIMINARY ALTERNATIVES REPORT

- Document process, methodology, and results from workshop(s) and screening

7. DETERMINE PROJECT SCOPE

* Initiate public meetings

- Decide on specific project scope based on screening results
- Refine study area, purpose (as appropriate)
- Traditional NEPA phase begins

QUESTIONS?





October 5, 2016

Financial Update

David Tyeryar, Chief Financial Officer



Financial Update

SFYTD 2017 as compared SFYTD 2016

Dollars in Millions	<u>August 16</u>	<u>August 15</u>	<u>Year to Date</u>		
			<u>August 16</u>	<u>August 15</u>	<u>\$ Change</u>
Revenue Collections	\$ 507	\$ 423	\$ 915	\$ 787	\$ 128
Expenditures	<u>462</u>	<u>405</u>	<u>852</u>	<u>804</u>	<u>48</u>
Net Change	\$ 45	\$ 18	\$ 63	\$ (17)	\$ 80
	<u>August 16</u>	<u>August 15</u>			
Cash Balances:					
Trust Fund	\$ 1,405	\$ 1,177			
Highway Fund*	<u>284</u>	<u>206</u>			
Totals	<u>\$ 1,689</u>	<u>\$ 1,383</u>			

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



Unaudited Financial Report

Transportation

Revenue Summary August 2016

(\$ in Millions)

	August 2016	August 2015	Year Over Year				SFY Budget	
			2016-2017 Actual	2015-2016 Actual	\$	%	Annual Budget	%
State & Federal Receipts:								
Highway Fund *	\$ 183.9	\$ 178.5	\$ 362.2	\$ 349.2	\$ 13.0	4%	2,048.7	18%
Highway Trust Fund *	132.8	112.8	252.2	228.2	24.0	11%	1,371.3	18%
Total State Funds	316.7	291.3	614.5	577.4	37.1	6%	\$ 3,420.0	18%
Federal Funds/Participation	131.3	101.2	210.6	176.6	34.0	19%	1,257.7	17%
GARVEE Reimbursement/NCTA	58.7	30.5	90.3	32.8	57.5	175%		
Total	\$ 506.7	\$ 423.0	\$ 915.4	\$ 786.8	\$ 128.6	16%	\$ 4,677.7	20%
	August 2016	August 2015	Year Over Year				SFY Budget	
			2016-2017 Actual	2015-2016 Actual	\$	%	Annual Budget	%
* Memo								
Highway Fund & Trust Fund Details								
Motor Fuel Taxes	\$ 156.7	\$ 170.0	\$ 323.7	\$ 333.4	\$ (9.7)	-3%	\$ 1,782.8	18%
Highway Use Tax	72.2	60.7	131.7	122.1	9.6	8%	659.8	20%
DMV/Other Revenue	86.3	59.8	157.5	121.2	36.4	30%	974.4	16%
Investment Income	1.5	0.7	1.5	0.7	0.8	0%	3.0	51%
Total	\$ 316.7	\$ 291.3	\$ 614.5	\$ 577.4	\$ 37.1	6%	\$ 3,420.0	18%



Expenditure Summary August 2016

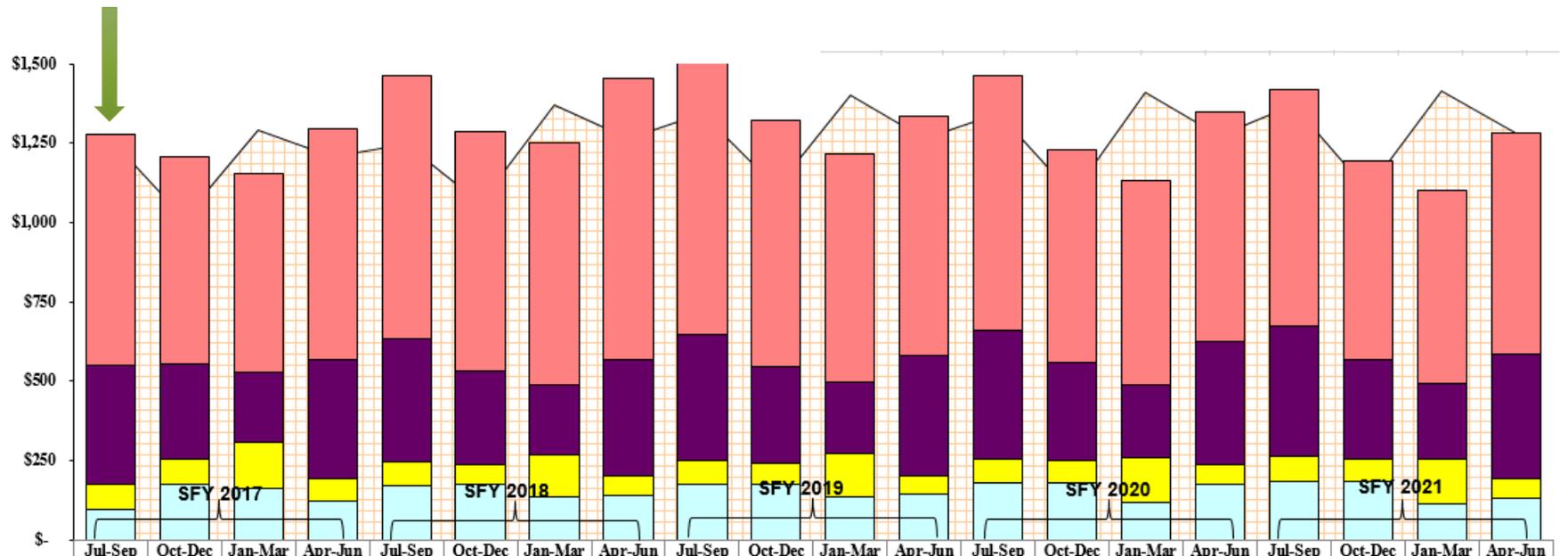
(\$ in millions)

	Year Over Year						SFY Annual Budget	
	Aug-16	Aug-15	2016-2017	2015-2016			2016-2017	
			Actual	Actual	\$	%	Budget	%
State & Federal Funded Programs:								
Construction	\$ 240.6	\$ 180.8	\$ 455.8	\$ 389.0	\$ 66.8	17%	\$ 2,304.7	20%
Maintenance	134.4	125.9	252.4	238.7	13.7	6%	1,293.0	20%
Public Transportation	8.3	6.5	12.8	13.5	(0.7)	-5%	126.9	10%
Other Modal/Other Programs	12.0	10.0	25.5	23.3	2.2	9%	231.9	11%
Administration	23.1	20.9	(20.0)	0.9	(20.9)	NA	316.9	-6%
Municipal Aid	-	-	-	-	-	0%	147.5	0%
Transfers to Other Agencies	7.3	0.9	7.3	1.5	5.8	NA	47.3	15%
Total Expenditures	\$ 425.6	\$ 344.9	\$ 733.8	\$ 666.8	\$ 67.0	10%	\$ 4,468.2	16%
GARVEE/NCTA/Special Initiatives	\$ 36.8	\$ 59.8	\$ 118.2	\$ 137.1	\$ (18.9)	-14%	209.4	56%



60 Month Cash Model

Revenue & Expenditure Projections as of August 2016

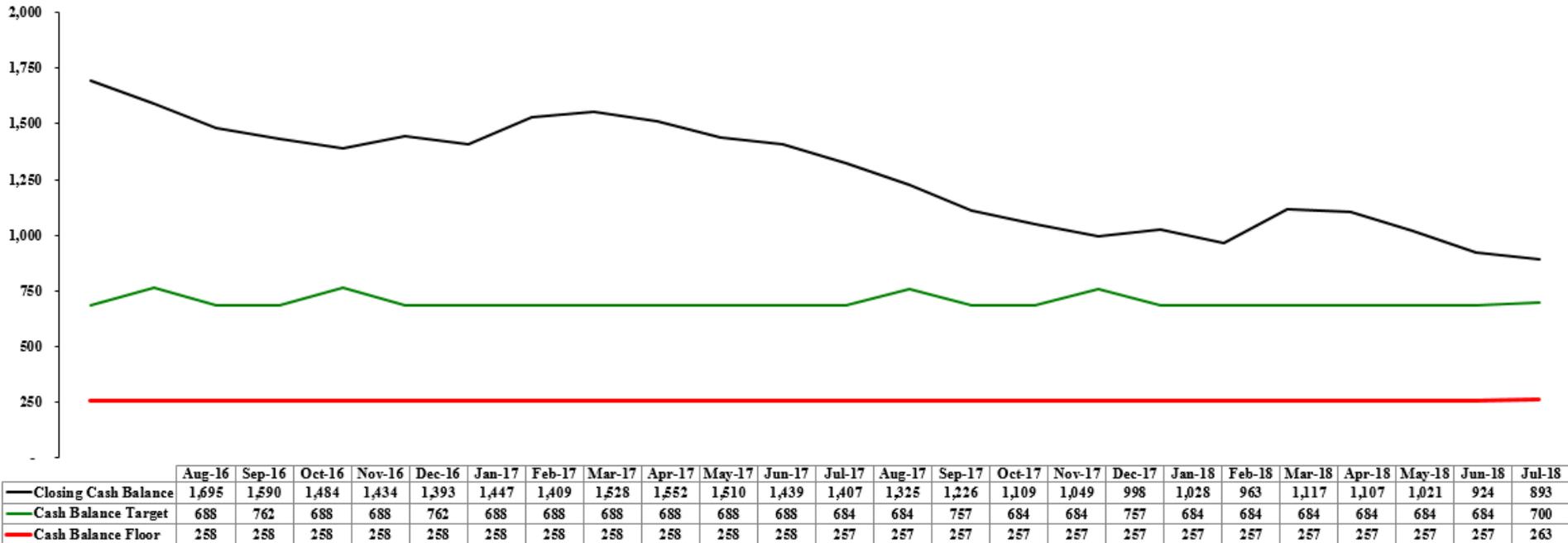


	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun																
□ Revenues	\$1,265	\$1,012	\$1,291	\$1,206	\$1,249	\$1,061	\$1,371	\$1,264	\$1,346	\$1,113	\$1,404	\$1,266	\$1,343	\$1,089	\$1,409	\$1,275	\$1,370	\$1,100	\$1,415	\$1,285
■ Construction Expenditures	726	656	626	729	830	755	763	887	892	775	718	751	804	673	645	724	744	624	609	693
■ Maintenance Expenditures	376	299	223	374	385	296	221	370	395	303	226	379	403	310	231	387	413	317	236	396
■ Other Modes	79	79	144	69	75	64	132	59	77	66	135	60	78	67	138	62	80	69	141	63
□ Other Expenditures	97	175	162	124	172	174	135	141	175	177	137	144	178	181	120	176	182	184	114	129

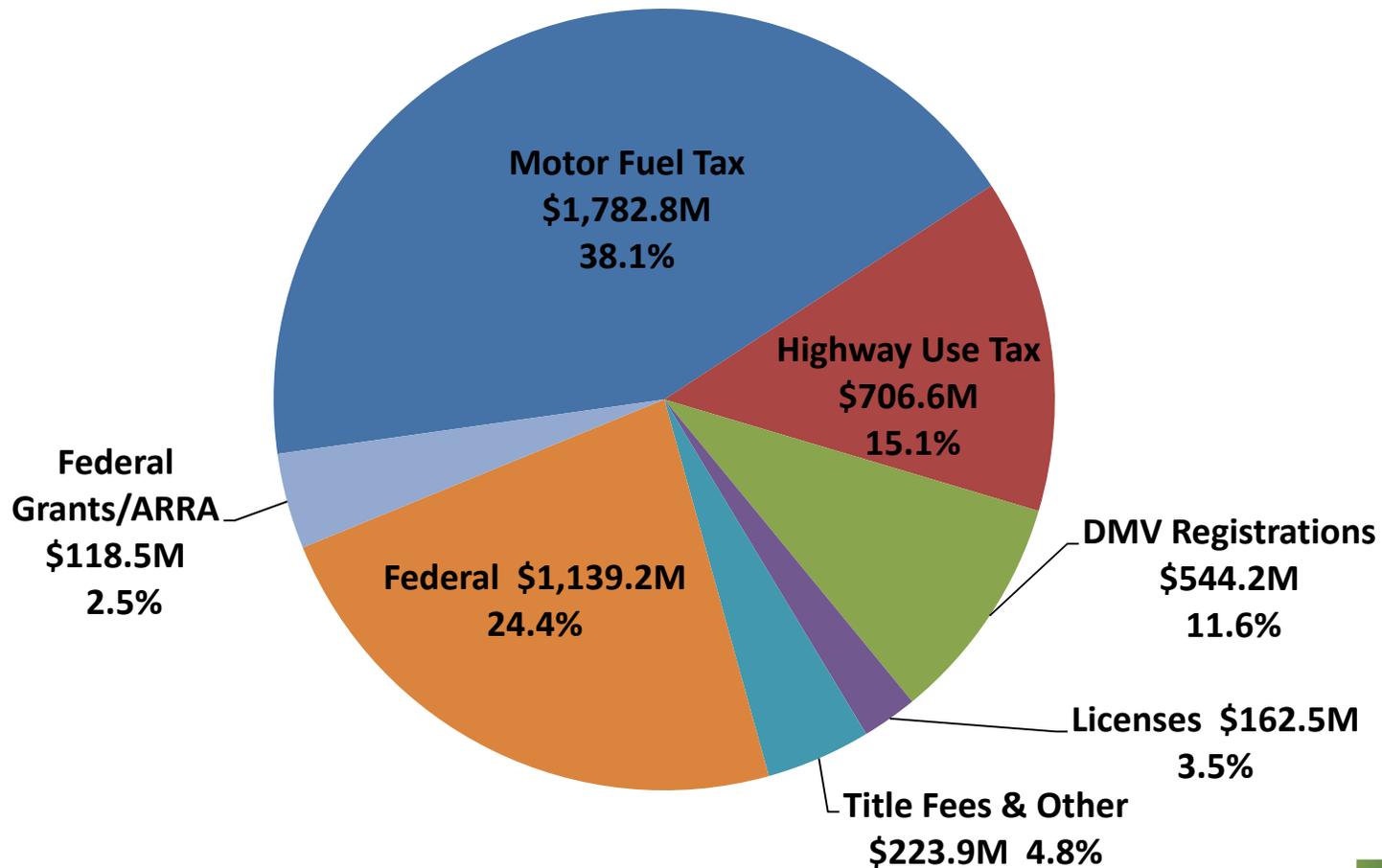


24 Month Cash Model

Cash Projections as of August 2016



NCDOT Revenue Sources SFY2017 - \$4.7 Billion

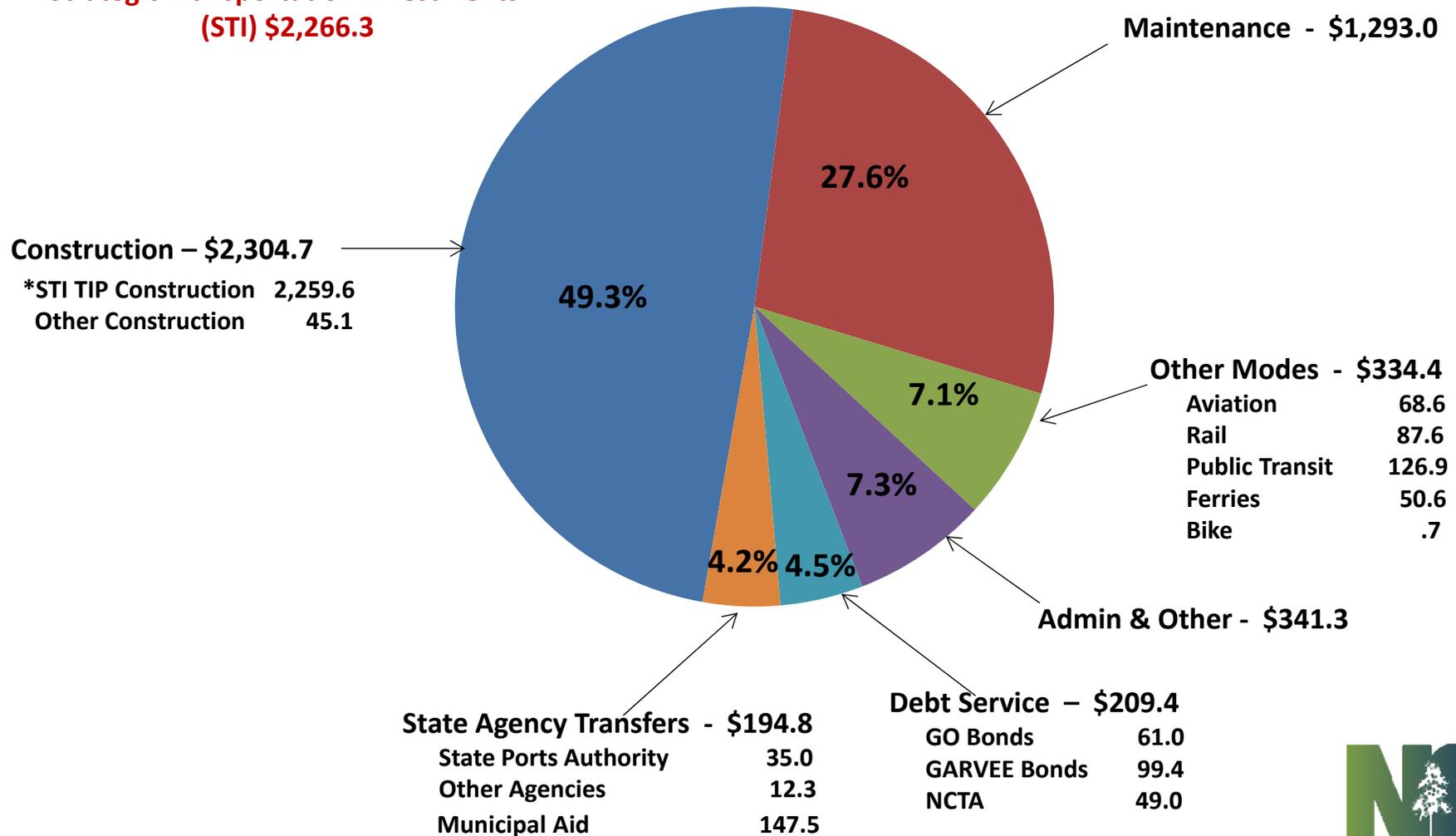


Uses of 2016-17 NCDOT Appropriations

Total Funding = \$4.7 Billion

(Excludes Receipt Supported Funding of \$0.1B)

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



(\$ in millions)

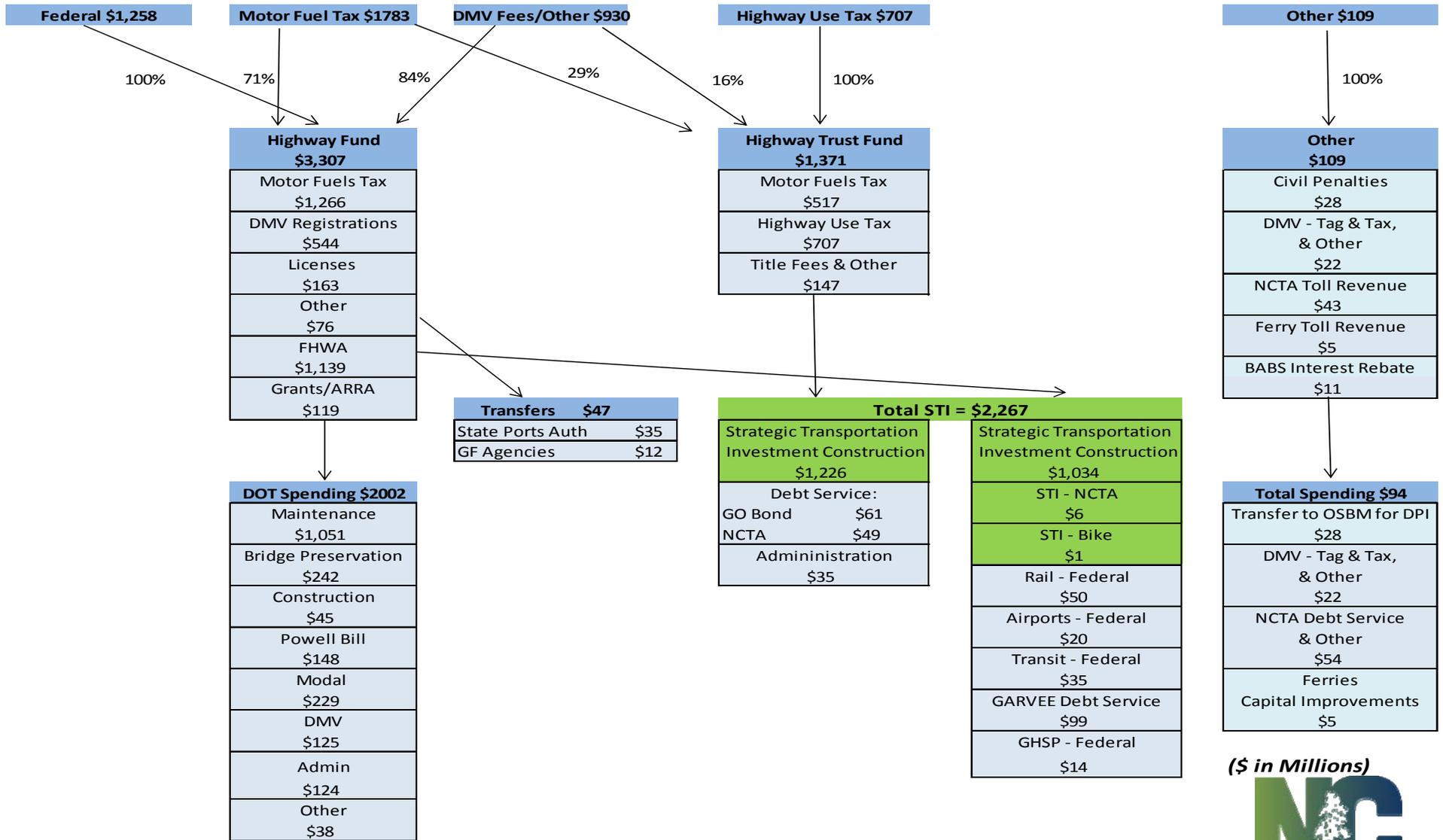


Unaudited Financial Report

Transportation

SFY2017 NCDOT Sources and Uses

Total Funding = \$4.8 Billion



(Includes Receipt Supported Funding of \$0.1B)





NCDOT Board of Transportation

Incident Management

Meredith McDiarmid

Transportation Mobility and Safety Division



What is Incident Management?

Mobility and Safety for NC Motorists

- **Keeping the Roads Open**
 - Quick Clearance
 - Scene Management
- **Informing Motorists in Advance**
 - Reduce Secondary Crashes
 - Informed Decisions
- **Proactively Mitigating Potential Hazards**
 - Disabled/Abandoned Vehicles
 - Debris



How Does NCDOT Respond to Incidents?

Traveler Information

- **Transportation Management Centers (TMC)**
 - Statewide Transportation Operations Center (STOC)
 - Metrolina TMC
- **Traveler Information Management System (TIMS)**
- **Overhead Message Boards**



How Does NCDOT Respond to Incidents?

Incident Management

- **Traffic Control**
 - Incident Motorists Assistance Patrol (IMAP)
 - Maintenance for Long Term Incidents and in Rural Areas
- **Relationships**
 - Fire
 - Law Enforcement
 - Emergency Medical Services
 - Towing and Recovery



How Does NCDOT Respond to Incidents?

Emergency Management

- **Emergency Operations Center**
 - Adverse Weather
 - Fuel Shortage
 - Protesting
- **Statewide Functionality**
 - Working towards having statewide camera and message sign functionality from STOC



Initiatives to Support our Mission

• Initiatives

- IMAP and TMC Training
- Team Meetings
- Responder Safety Training
- SHRP2 Training
- Heavy Towing Program





NCDOT Board of Transportation

Incident Management

Meredith McDiarmid

Transportation Mobility and Safety Division



REVISIONS TO THE 2016-2025 STIP
HIGHWAY PROGRAM
STIP ADDITIONS

DIVISION 2

* U-5952 GREENVILLE, GREENVILLE SIGNAL SYSTEM.
PITT PROGRAMMED FOR PLANNING AND ENVIRONMENTAL
PROJ.CATEGORY STUDY ONLY.
REGIONAL

DIVISION 3

R-3300B US 17, NC 210 TO US 17 NORTH OF HAMPSTEAD.
PENDER PROGRAMMED FOR PRELIMINARY ENGINEERING FOR
PROJ.CATEGORY DESIGN.
REGIONAL

DIVISION 6

* EB-5541 BIG CROSS CREEK GREENWAY, LITTLE CROSS CREEK
CUMBERLAND TO SMITH LAKE IN FORT BRAGG. CONSTRUCT MULTI-
PROJ.CATEGORY USE TRAIL.
DIVISION PROGRAMMED FOR PLANNING AND ENVIRONMENTAL
STUDY ONLY

DIVISION 13

* EB-5821	REEMS CREEK GREENWAY, CONSTRUCT MULTI-USE	ENGINEERING	FY 2018 -	\$480,000	(STBGDA)
BUNCOMBE	PATH ALONG REEMS CREEK CORRIDOR FROM		FY 2018 -	\$120,000	(L)
PROJ.CATEGORY	WESTERN EDGE OF TOWN OF WEAVERVILLE TO			\$600,000	
DIVISION	KARPEN SOCCER FIELDS				
	<u>PROJECT ADDED AT REQUEST OF MPO.</u>				

* EB-5822	NORTH RAD GREENWAY, CONSTRUCT MULTI-USE	ENGINEERING	FY 2018 -	\$240,000	(STBGDA)
BUNCOMBE	PATH ALONG RIVERSIDE DRIVE FROM HILL STREET TO		FY 2018 -	\$60,000	(L)
PROJ.CATEGORY	US 19/23/70 AT BROADWAY			\$300,000	
DIVISION	<u>PROJECT ADDED AT REQUEST OF MPO.</u>				

* EB-5823	BENT CREEK GREENWAY, CONSTRUCT MULTI-USE	ENGINEERING	FY 2018 -	\$320,000	(STBGDA)
BUNCOMBE	PATH FROM HOMINY CREEK RIVER PARK TO		FY 2018 -	\$80,000	(L)
PROJ.CATEGORY	WESTERN NC FARMER'S MARKET			\$400,000	
DIVISION	<u>PROJECT ADDED AT REQUEST OF MPO.</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 ADDITIONS

DIVISION 13

* EB-5824	HOMINY CREEK GREENWAY, CONSTRUCT MULTI-USE	ENGINEERING	FY 2018 -	\$320,000	(STBGDA)
BUNCOMBE	PATH FROM HOMINY VALLEY PARK AND ENKA HIGH		FY 2018 -	\$80,000	(L)
PROJ.CATEGORY	SCHOOL TO EAST OF SAND HILL ROAD			\$400,000	
DIVISION	<u>PROJECT ADDED AT REQUEST OF MPO.</u>				

DIVISION 14

* R-4430	SR 1783 (UPWARD ROAD), US 176 TO SR 1006	CONSTRUCTION	FY 2017 -	\$25,000	(T)
HENDERSON	(HOWARD GAP ROAD). WIDEN AND IMPROVE			\$25,000	
PROJ.CATEGORY	ROADWAY.				
TRANSITION	<u>ADD CONSTRUCTION IN FY 17 NOT PREVIOUSLY PROGRAMMED. FUNDING NEEDED TO CORRECT DRAINAGE ISSUE CREATED BY PROJECT.</u>				

* R-5734B	US 23/US 441, SR 1652 (WIDE HORIZON DRIVE)/SR 1152				
MACON	(BELDEN CIRCLE) TO SR 1649 (PRENTISS BRIDGE				
PROJ.CATEGORY	ROAD).				
REGIONAL	<u>PROGRAMMED FOR PLANNING AND ENVIRONMENTAL STUDY ONLY</u>				

* R-5799	US 64, US 276, NC 280, US 64, US 276, NC 280 AND US				
TRANSYLVANIA	64. CONSTRUCT INTERSECTION IMPROVEMENTS.				
PROJ.CATEGORY	<u>PROGRAMMED FOR PLANNING AND ENVIRONMENTAL STUDY ONLY</u>				
REGIONAL					

* R-5800	US 64, US 276, FORTUNE COVE ROAD TO US 64				
TRANSYLVANIA	BUSINESS (NORTH CALDWELL STREET). CONSTRUCT				
PROJ.CATEGORY	MEDIAN AND ACCESS CONTROL MEASURES.				
REGIONAL	<u>PROGRAMMED FOR PLANNING AND ENVIRONMENTAL STUDY ONLY</u>				

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* INDICATES FEDERAL AMENDMENT

REVISIONS TO THE 2016-2025 STIP
HIGHWAY PROGRAM
STIP MODIFICATIONS

DIVISION 7

* I-5812 GUILFORD PROJ.CATEGORY STATEWIDE	I-40 / BUSINESS 85 I-40 / I-85 I-85, I-40 / BUSINESS 85, EAST OF SR 3037 / SR 4240 (EAST GATE CITY BOULEVARD) TO I-85; I-85 NORTH OF SR 3000 (MCCONNELL ROAD) TO I-40; I-40 / I-85, WEST OF SR 3048 (MOUNT HOPE CHURCH ROAD) TO EAST OF SR 3056 (ROCK CREEK DAIRY ROAD). PAVEMENT REHABILITATION. <u>REVISE TERMINI AND COST BASED ON DIVISION REVIEW (COST INCREASE EXCEEDING \$2 MILLION AND 25% THRESHOLDS)</u>	CONSTRUCTION	FY 2017 -	\$7,200,000	(NHPIM)
				\$7,200,000	

* U-5543 DURHAM ORANGE PROJ.CATEGORY REGIONAL	VARIOUS, VARIABLE MESSAGE SIGNS FOR TRAFFIC MANAGEMENT ON MAJOR CORRIDORS IN CHAPEL HILL. <u>AT THE REQUEST OF THE MPO, ADD CONSTRUCTION IN FY 17 NOT PREVIOUSLY PROGRAMMED.</u>	CONSTRUCTION	FY 2017 -	\$419,000	(STBGDA)
			FY 2017 -	\$105,000	(L)
				\$524,000	

U-5843 ALAMANCE PROJ.CATEGORY DIVISION	US 70 (CHURCH STREET), SR 1817 (GRAHAM-HOPEDALE ROAD) IN BURLINGTON. INTERSECTION IMPROVEMENTS. <u>TO ALLOW ADDITIONAL TIME FOR PLANNING AND DESIGN, DELAY RIGHT-OF-WAY FROM FY 16 TO FY 17</u>	RIGHT-OF-WAY CONSTRUCTION	FY 2017 -	\$225,000	(T)
			FY 2018 -	\$938,000	(T)
				\$1,163,000	

DIVISION 8

U-5706 RICHMOND PROJ.CATEGORY DIVISION	VARIOUS, US 74 BUSINESS TO SR 1426 (ABERDEEN ROAD). CONSTRUCT TWO LANE FACILITY UTILIZING SECTIONS OF SR 1923 (BROAD STREET), SR 1641 (CLEMMER ROAD) AND SR 1645 (MT. OLIVE CHURCH ROAD), REMAINDER ON NEW LOCATION. <u>REVISE SOUTHERN TERMINUS AT REQUEST OF PRECONSTRUCTION BASED ON SCOPE REVIEW.</u>	RIGHT-OF-WAY UTILITIES CONSTRUCTION	FY 2020 -	\$1,294,000	(T)
			FY 2020 -	\$155,000	(T)
			FY 2021 -	\$4,560,000	(T)
				\$6,009,000	

DIVISION 9

AV-5749 DAVIDSON PROJ.CATEGORY DIVISION	DAVIDSON COUNTY AIRPORT (EXX), INSTALL RUNWAY 6 MEDIUM INTENSITY APPROACH LIGHTING SYSTEM WITH RUNWAY ALIGNMENT INDICATOR LIGHTS ACROSS I-85, INCLUDING INTERCHANGE LIGHTING. <u>ACCELERATE RIGHT-OF-WAY FROM FY 19 TO FY 17 AT REQUEST OF DIVISION OF AVIATION, TO REFLECT AIRPORT'S DELIVERY SCHEDULE.</u>	RIGHT-OF-WAY CONSTRUCTION	FY 2017 -	\$611,000	(T)
			FY 2017 -	\$67,000	(L)
			FY 2020 -	\$2,154,000	(T)
			FY 2020 -	\$239,000	(L)
				\$3,071,000	

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REVISIONS TO THE 2016-2025 STIP
HIGHWAY PROGRAM
STIP MODIFICATIONS

DIVISION 9

* B-5007 FORSYTH PROJ.CATEGORY DIVISION	WEST FIRST STREET, REPLACE BRIDGE 330296 OVER NORFOLK SOUTHERN RAILWAY IN WINSTON-SALEM. <u>TO ALLOW ADDITIONAL TIME TO COMPLETE PRELIMINARY ENGINEERING, DELAY RIGHT-OF-WAY FROM FY 17 TO FY 19 AND CONSTRUCTION FROM FY 18 TO FY 21</u>	RIGHT-OF-WAY CONSTRUCTION	FY 2019 - \$56,000 (STPOFF) FY 2019 - \$14,000 (L) FY 2021 - \$560,000 (STPOFF) FY 2021 - \$140,000 (L)	
			\$770,000	

DIVISION 10

AV-5732 CABARRUS PROJ.CATEGORY REGIONAL	CONCORD REGIONAL AIRPORT (JQF), COMMERCIAL SERVICES TERMINAL (DESIGN & CONSTRUCTION) <u>ACCELERATE CONSTRUCTION FROM FY 19 TO FY 17 AT THE REQUEST OF THE DIVISION OF AVIATION.</u>	CONSTRUCTION	FY 2017 - \$300,000 (T) FY 2017 - \$2,500,000 (O)	
			\$2,800,000	

U-3440 CABARRUS PROJ.CATEGORY TRANSITION	NC 3, PROPOSED WEST SIDE BYPASS (U-2009) TO SR 1691 (LOOP ROAD) IN KANNAPOLIS. WIDEN TO A FOUR-LANE DIVIDED FACILITY. <u>TO ALLOW ADDITIONAL TIME FOR PLANNING, DELAY CONSTRUCTION FROM FY 16 TO FY 17</u>	CONSTRUCTION	FY 2017 - \$24,200,000 (T)	\$24,200,000
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* U-5905 MECKLENBURG PROJ.CATEGORY EXEMPT	SR 2112 (LAKEVIEW ROAD), REAMES ROAD TO NC 115. UPGRADE ROADWAY. <u>CHANGE PROJECT LIMITS AT THE REQUEST OF DIVISION 10 AND THE CITY OF CHARLOTTE. WESTERN PROJECT LIMIT MOVES FROM US 21 TO REAMES ROAD.</u>	RIGHT-OF-WAY CONSTRUCTION	FY 2017 - \$100,000 (BA) FY 2018 - \$8,900,000 (BA)	\$9,000,000
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DIVISION 13

B-5882 MADISON PROJ.CATEGORY HWY FUNDS	SR 1151 (BIG PINE ROAD), REPLACE BRIDGE 560145 OVER BIG PINE CREEK. <u>TO ALLOW ADDITIONAL TIME FOR DESIGN, DELAY RIGHT-OF-WAY FROM FY 17 TO FY 18 AND CONSTRUCTION FROM FY 18 TO FY 19</u>	RIGHT-OF-WAY CONSTRUCTION	FY 2018 - \$25,000 (HFB) FY 2019 - \$300,000 (HFB)	\$325,000
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REVISIONS TO THE 2016-2025 STIP
HIGHWAY PROGRAM
STIP MODIFICATIONS

DIVISION 13

* EB-5547	NEW ROUTE, CONSTRUCT NEW MULTI-USE PATH	ENGINEERING	FY 2016 -	\$120,000	(STBGDA)
BUNCOMBE	FROM EXISTING FLAT CREEK GREENWAY TRAILHEAD		FY 2016 -	\$30,000	(L)
PROJ.CATEGORY	NEAR STATE STREET AND CHARLOTTE STREET TO		FY 2017 -	\$22,000	(STBGDA)
DIVISION	EXISTING RIVERSIDE GREENWAY NEAR RIVERSIDE		FY 2017 -	\$6,000	(L)
	PARK AND EXTENSION WEST OF NC 9 NEAR EXISTING	RIGHT-OF-WAY	FY 2018 -	\$80,000	(STBGDA)
	CULVERT.		FY 2018 -	\$20,000	(L)
	<u>INCREASE FUNDING FOR ENGINEERING AND ADD</u>	CONSTRUCTION	FY 2019 -	\$1,385,000	(STBGDA)
	<u>RIGHT-OF-WAY IN FY 18 AND CONSTRUCTION IN FY 19</u>		FY 2019 -	\$346,000	(L)
	<u>NOT PREVIOUSLY PROGRAMMED AT THE REQUEST</u>				
	<u>OF THE MPO.</u>			\$2,009,000	

* EB-5790	ASHEVILLE, ON-STREET CROSSINGS AND	ENGINEERING	FY 2016 -	\$96,000	(TAPDA)
BUNCOMBE	CONNECTIONS FOR BICYCLISTS AND PEDESTRIANS IN		FY 2016 -	\$24,000	(L)
PROJ.CATEGORY	ASHEVILLE'S EAST OF THE RIVERWAY.		FY 2017 -	\$114,000	(TAPDA)
DIVISION	<u>INCREASE FUNDING FOR ENGINEERING AND ADD</u>		FY 2017 -	\$29,000	(L)
	<u>CONSTRUCTION IN FY 19 NOT PREVIOUSLY</u>	CONSTRUCTION	FY 2019 -	\$840,000	(TAPDA)
	<u>PROGRAMMED AT THE REQUEST OF THE MPO.</u>		FY 2019 -	\$210,000	(L)
				\$1,313,000	

DIVISION 14

C-5151	EASTERN BAND OF CHEROKEE INDIANS (EBCI), GREAT	CONSTRUCTION	FY 2017 -	\$177,000	(CMAQ)
HAYWOOD	SMOKIES NATIONAL PARK. CONSTRUCT A MIXED-USE		FY 2017 -	\$65,000	(L)
SWAIN	PATHWAY.			\$242,000	
PROJ.CATEGORY	<u>TO ALLOW ADDITIONAL TIME FOR PLANNING, DELAY</u>				
EXEMPT	<u>CONSTRUCTION FROM FY 16 TO FY 17</u>				

C-5203	EASTERN BAND OF CHEROKEE INDIANS (EBCI), BIG	ENGINEERING	FY 2016 -	\$39,000	(CMAQ)
SWAIN	COVE MIXED USE PATH, CHEROKEE CENTRAL		FY 2016 -	\$10,000	(L)
PROJ.CATEGORY	SCHOOL NORTHWARD ON BOTH SIDES OF THE	RIGHT-OF-WAY	FY 2017 -	\$77,000	(CMAQ)
EXEMPT	OCONALUFTEE RIVER TO THE EXISTING BIG COVE		FY 2017 -	\$19,000	(L)
	ROAD MIXED USE TRAIL. CONSTRUCT PEDESTRIAN	CONSTRUCTION	FY 2017 -	\$77,000	(CMAQ)
	AND BIKE PATH, PHASES 3 AND 4.		FY 2017 -	\$19,000	(L)
	<u>TO ALLOW ADDITIONAL TIME FOR PLANNING, DELAY</u>			\$241,000	
	<u>RIGHT-OF-WAY FROM FY 16 TO FY 17 AND</u>				
	<u>CONSTRUCTION FROM FY 16 TO FY 17</u>				

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REVISIONS TO THE 2016-2025 STIP
HIGHWAY PROGRAM
STIP MODIFICATIONS

DIVISION 14

* EB-5757	BROWN AVENUE, US 23 BUSINESS (SOUTH MAIN STREET) TO BELLE MEADE DRIVE. REDUCE ROADWAY LANES TO THREE AND CONSTRUCT BIKE LANES.	ENGINEERING	FY 2017 -	\$40,000	(STBGDA)
HAYWOOD			FY 2017 -	\$10,000	(L)
PROJ.CATEGORY			FY 2021 -	\$40,000	(TAP)
DIVISION	<u>ADD ADDITIONAL ENGINEERING FUNDING IN FY 17 AT THE REQUEST OF THE MPO.</u>		FY 2021 -	\$10,000	(L)
		CONSTRUCTION	FY 2023 -	\$80,000	(TAP)
			FY 2023 -	\$20,000	(L)
				\$200,000	

* R-5771	SR 1690 (BROADPOINTE DRIVE), IMPROVE EXISTING SR 1690 (BROADPOINTE DRIVE) TO 24 FEET PAVED ROADWAY AND REPLACE BRIDGE 440107.	ENGINEERING	FY 2016 -	\$306,000	(APD)
HENDERSON		RIGHT-OF-WAY	FY 2017 -	\$295,000	(APD)
PROJ.CATEGORY		CONSTRUCTION	FY 2017 -	\$1,230,000	(APD)
EXEMPT	<u>ADD RIGHT-OF-WAY IN FY 17 NOT PREVIOUSLY PROGRAMMED.</u>			\$1,831,000	

STIP DELETIONS

DIVISION 14

* I-5834	I-40, MILE MARKER 27 TO MILE MARKER 34. PAVEMENT REHABILITATION.	CONSTRUCTION	FY 2019 -	\$7,400,000	(NHPIM)
HAYWOOD				\$7,400,000	
PROJ.CATEGORY	<u>DELETE AT THE REQUEST OF DIVISION. WORK TO BE ACCOMPLISHED IN I-5776.</u>				
STATEWIDE					

STATEWIDE

* B-9000DIV	VARIOUS, BRIDGE INSPECTION PROGRAM	IMPLEMENTATION	FY 2017 -	\$3,300,000	(STBG)
STATEWIDE			FY 2018 -	\$3,300,000	(STBG)
PROJ.CATEGORY	<u>DELETE PROJECT. IT HAS BEEN DETERMINED THAT EXISTING STIP PROJECT B-9999 WILL CONTINUE TO BE USED FOR BRIDGE INSPECTIONS.</u>		FY 2019 -	\$3,300,000	(STBG)
DIVISION			FY 2020 -	\$3,300,000	(STBG)
				\$13,200,000	

* B-9000REG	VARIOUS, BRIDGE INSPECTION PROGRAM	IMPLEMENTATION	FY 2017 -	\$3,300,000	(STBG)
STATEWIDE			FY 2018 -	\$3,300,000	(STBG)
PROJ.CATEGORY	<u>DELETE PROJECT. IT HAS BEEN DETERMINED THAT EXISTING STIP PROJECT B-9999 WILL CONTINUE TO BE USED FOR BRIDGE INSPECTIONS.</u>		FY 2019 -	\$3,300,000	(STBG)
REGIONAL			FY 2020 -	\$3,300,000	(STBG)
				\$13,200,000	

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REVISIONS TO THE 2016-2025 STIP
HIGHWAY PROGRAM
STIP DELETIONS

STATEWIDE

* B-9000SW	VARIOUS, BRIDGE INSPECTION PROGRAM	IMPLEMENTATION	FY 2017 -	\$4,400,000	(STBG)
STATEWIDE	<u>DELETE PROJECT. IT HAS BEEN DETERMINED THAT</u>		FY 2018 -	\$4,400,000	(STBG)
PROJ.CATEGORY	<u>EXISTING STIP PROJECT B-9999 WILL CONTINUE TO</u>		FY 2019 -	\$4,400,000	(STBG)
STATEWIDE	<u>BE USED FOR BRIDGE INSPECTIONS.</u>		FY 2020 -	\$4,400,000	(STBG)
				\$17,600,000	

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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)
TO-6141	Cape Fear Transportation Authority	Operating assistance for fixed route serving Carolina/Kure Beaches	FUZ	STPDA	75						
			Local	L	75						
TA-5228	Winston-Salem TA	Replacement Bus	FUZ	5307		1000					
			Local	L		200					
TG-6178A	GoDurham	Purchase of Service	FEPD	5310		100					
			Local	L		25					

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)
TQ-3002	Orange County Department on Aging	Mobility Management and Purchase of Service/Capital	FEPD	5310		110					
			Local	L		28					
TQ-3001	Durham County Access	Purchase of Demand Response Service/Capital	FEPD	5310		100					
			Local	L		25					
TQ-7002	DCHC MPO LPA/City of Durham	Administration of 5310 Program	FEPD	5310		48					
TQ-5104	Chapel Hill Transit	EZ Rider Senior Shuttle - Provision of Service/Operating	FEPD	5310		120					
			Local	L		120					
TO-5130B	GoDurham	Operating Assistance New route	5307	CMAQ		1100					
			Local	L		275					

Item I-1B, 1 Projects, Total Federal/State funds \$2,653,000



NC Board of Transportation

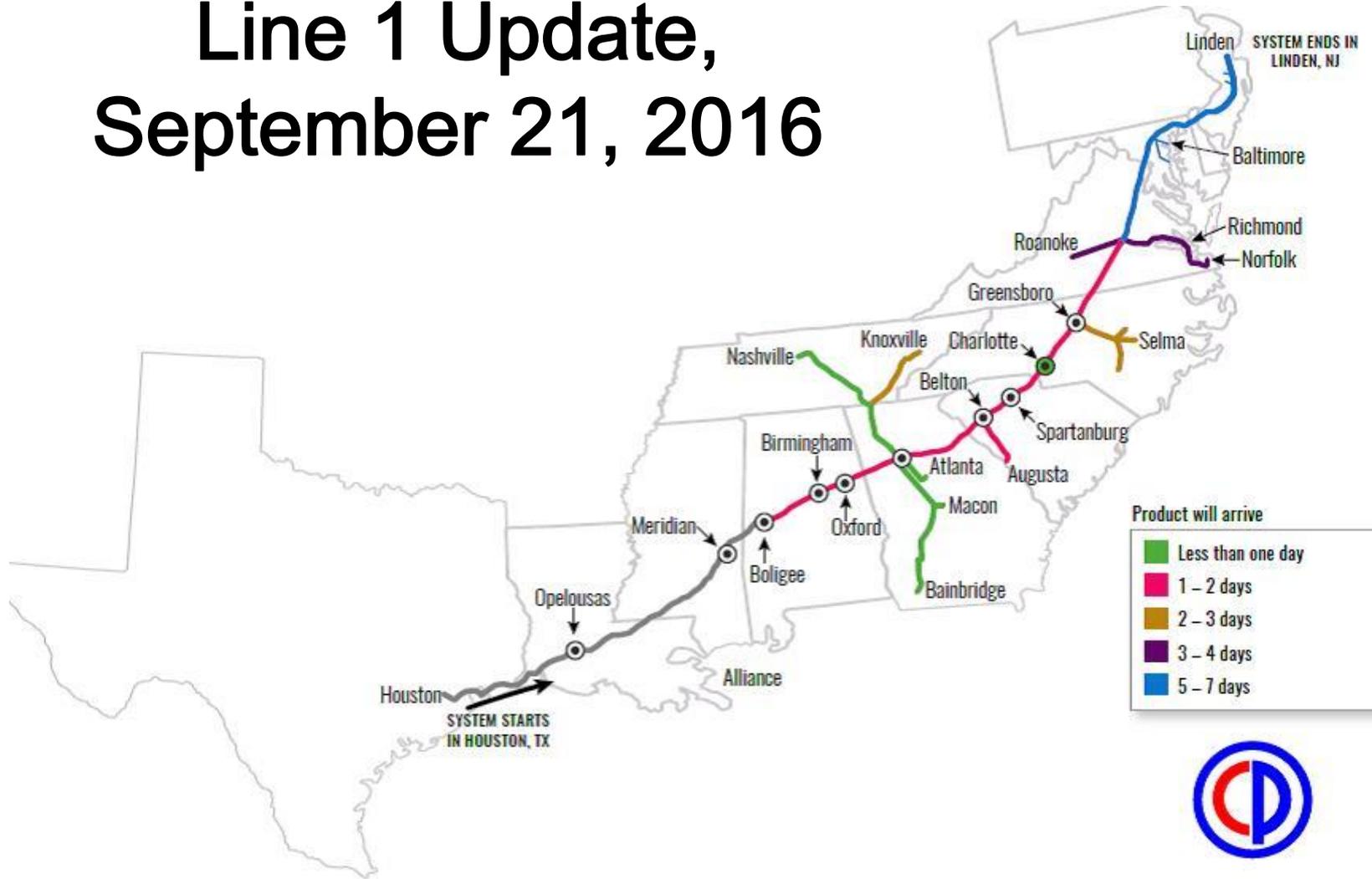
October 6, 2016

*Logistics and Response to September
Fuel Shortage*

Emily McGraw, PE



Line 1 Update, September 21, 2016





Board of Transportation October 5, 2016

Product Evaluation Program Awareness

Natalie Roskam, PE



Product Highlight (Approved)

Infrasteel

- Steel pipe ranging in diameter from 24 to 180 inches and up.
- A method for trenchless rehabilitation of existing culverts to repair leaks or restore structural stability.
- Slip lining is completed by installing a Carrier Pipe into a Host Pipe, grouting the space between the two pipes, and sealing the ends.



*Compaction Grouting
to address deep subgrade stabilization (Under Evaluation)*

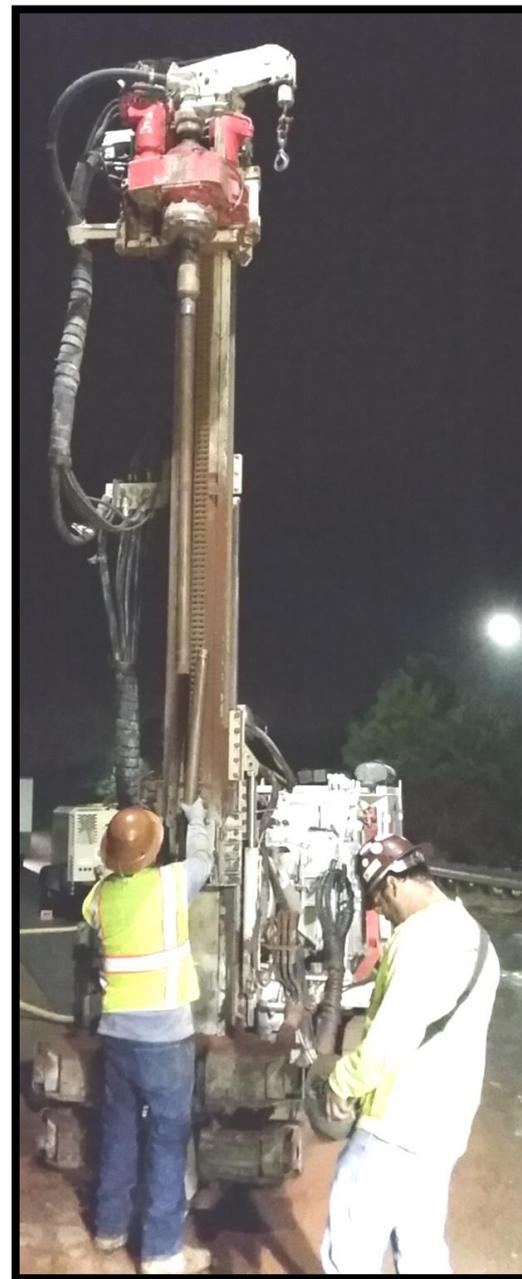


- Settlement at the bridge approach caused a six inch deflection.

Compaction Grouting to address deep subgrade stabilization (Under Evaluation)



*Compaction Grouting
to address deep subgrade
stabilization (Under
Evaluation)*



*Compaction Grouting
to address deep subgrade stabilization (Under Evaluation)*





Transportation

JOINT COMMITTEE MEETING (FAST/EDIR) MEETING MINUTES

DATE: 9/7/16 TIME: 1:58 LOCATION: 150

MEETING CALLED BY	Chairman Terry Hutchens
BOARD ATTENDEES	FAST Chairwoman Cheryl McQueary, EDIR Chairman Terry Hutchens, Ferrell Blount, Jeff Sheehan, Tracy F. Dodson Jake Alexander and Jack Debnam

AGENDA TOPICS

1. MEETING CALL TO ORDER AND APPROVAL OF AUGUST MINUTES – CHAIRMAN HUTCHENS	
DISCUSSION SUMMARY	Moved by Mr. Debnam, seconded by Mr. Blount
ACTIONS TAKEN	Approved unanimously
2. NC STATE FREIGHT PLAN OVERVIEW – TERRY ARELLANO	
DISCUSSION SUMMARY	<p>Terry Arellano introduced Dr. Paula Dowell who leads the consulting team tasked by the department to develop the NC Freight Plan. The plan is a result of a federal requirement in the FAST Act and is intended to prioritize the state’s interstate system for federal funding. The consultant team led by Cambridge Systematics will incorporate economic, demographic and freight traffic data for all modes for use forecasting models. This will allow NCDOT the ability better assist in local development goals and to better optimize maintenance projects along freight corridors.</p> <p>Paula then took a question from Jake Alexander who asked if this plan was duplicative of private sector efforts. Dr. Dowell replied by saying that the consultant team is overseen by an advisory committee comprising of leaders from both the public sector and private sector. Their charge is to ensure the results of the planning process benefit all interested parties – public and private. Paula answered a few more questions from the board and concluded by saying that she will return to the committee in November to brief them on the results of the Needs Assessment.</p>
ACTIONS TAKEN	Information only. No action taken.

Adjourned 2:49



JOINT COMMITTEE MEETING (FAST/EDIR) AGENDA

BOARD OF TRANSPORTATION OCTOBER 5, 2016

TIME: 1:15 – 2:45

LOCATION: Room 150

TOPIC	PRESENTER
Call to Order - Approval of September EDIR minutes	C. McQueary, Chairwoman FAST T. Hutchens, Chairman EDIR
Remnant Property	Greg Perfetti
Telecommunication Program	Greg Perfetti
CTP 2.0 and STIP Mapping Efforts	Jamal Alavi and Van Argabright
Map Act	J. Carr McLamb
Real Property Leases	Sterling Baker
Comments and Wrap Up	C. McQueary, Chairwoman FAST



Funding Appropriations and Strategy Committee

October 5th, 2016

Facilities Management - Leases

Sterling Baker, PE



Lease Overview

~130 leases for buildings and modular units

Roles and Responsibilities

- Department Branch/Unit
 - Identifies need for lease space and provides justification to the Chief Engineer's Office
- DOA State Property Office (SPO)
 - Manages State property transactions
 - Maintains property inventory for all State Agencies
- DOA State Property Office - Attorney General (AG)
 - Reviews and approves leases above \$25k

Lease Overview

Leases are regulated by the following North Carolina Administrative Codes 06B.0206, .0207, .0208, .0212:

- Less than \$5,000: Less than 3 years
 - Department-executes the lease with DOA/AG approved template
- \$5,000 to \$25,000: Less than 3 years
 - Department submits request
 - SPO – executes the lease with DOA/AG approved template
- \$25,000 to \$150,000: More than 3 years
 - Department submits request
 - Advertisement for proposals
 - SPO and Council of State approval
 - DOA/AG draws up lease & executes
- More than \$150,000*
 - Department submits request
 - Advertisement for proposals
 - SPO holds proposers conference
 - SPO and Council of State approval
 - DOA/AG draws up lease & executes



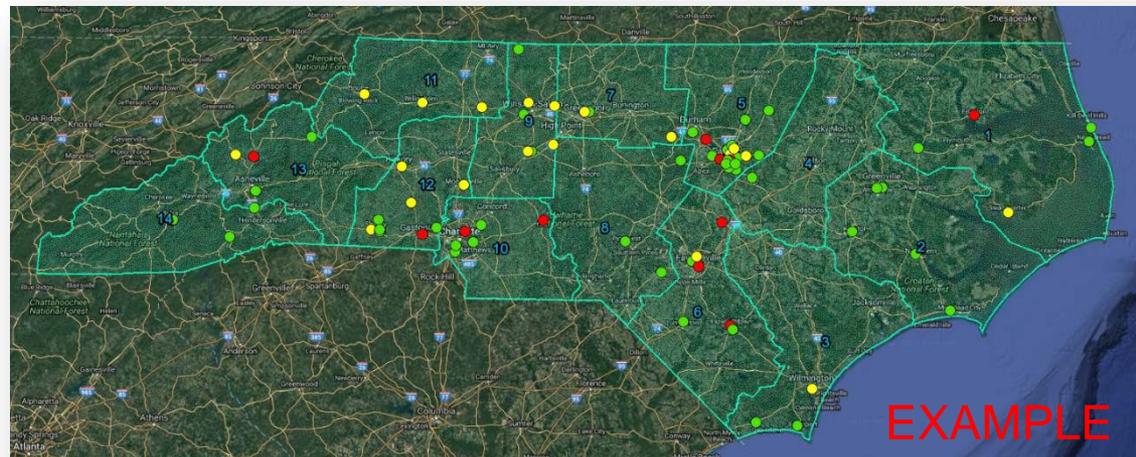
Lease Status Update

- Continue processing lease extensions and initiating new leases.
- Archive and/or organize historic files according to the current retention policy.
- Continue to enhance the database for lease documents for easy access and information
- Maintain a 6 to 9 month look ahead expiration schedule
- Complete the NCDOT owned facilities insurance update due to the Department of Insurance

Upcoming Lease Initiatives

- Finalize any changes to existing procedures necessary to streamline the processes.
- Evaluate existing organizational structure and staffing needs
- Evaluate software options for a more proactive approach
- Space Evaluations

- Condition Surveys
- Scheduling Awareness



Questions?





FAST Committee Meeting – October 2016

Remnant Property & Telecommunication Leases

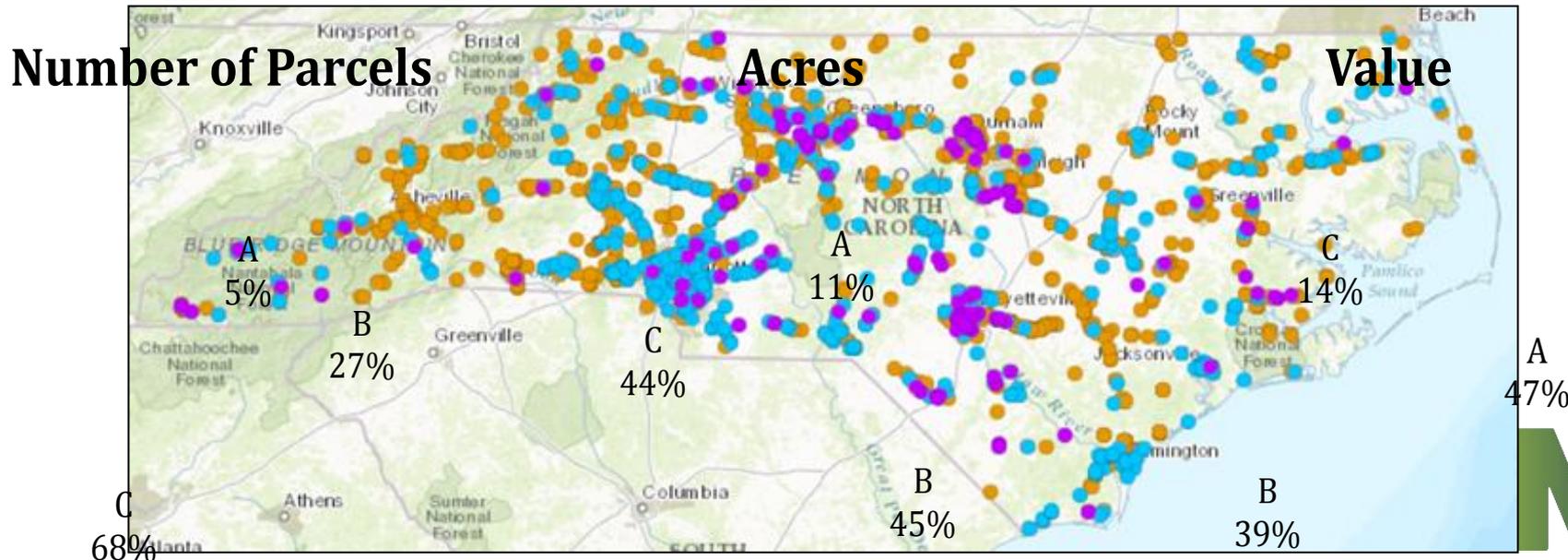
Greg Perfetti, PE, Director of Field Support



Remnant Properties – Report to NCGA

Preliminary Parcel Classification	Number of Parcels	Acres
A	175	540
B	899	2,265
C	2,245	2,259
TOTAL	3,319	5,064

Estimated Fair Market Value
A - Developable, stand alone \$5,682,784
B - Assemblage, more extensive use \$4,727,653
C - Of interest to adjacent owner \$1,718,992
\$12,129,429



Remnant Properties – Disposition

Current (NCAC 2B.0143)

- Public sale by sealed bid or auction
- Advertise in local newspaper
- Appraisal required unless $< \frac{1}{2}$ acre & value $< \$1,000$
- No upset bids

Proposed (Modify NCAC via Rule Making or Statute)

- Increase flexibility
 - Advertising
 - Determining FMV & when appraisals required
 - Upset bids
 - Direct negotiation
 - Use of NC licensed real estate brokers



Questions before transitioning to Telecommunication Program?



Wireless Telecommunications Program

Purpose

- Utilize Department's real property to extend broadband coverage, leasing space, modest revenue generation

Proposed

- DOA delegates authority to DOT
 - MOA has been developed
 - COS approval required
- Request for Applications (RFA)
- Industry Day for prospective respondents
- Issue Addendum to RFA
- Receive applications from respondents



Wireless Telecommunications Program

Master License Agreement

- 10 year term, option to renew, co-location, utility systems, maintenance, indemnification, insurance, default, termination, etc.
- Site Addendum(s)
 - Type of installation
 - Administrative and site fees
 - Annual fee escalation

Licensing Rates and Charges

- Type of tower/antenna
- Urban, suburban, rural



Questions?





Transportation

JOINT COMMITTEE MEETING (FAST/EDIR) MEETING MINUTES

DATE: 9/7/16 TIME: 1:58 LOCATION: 150

MEETING CALLED BY	Chairman Terry Hutchens
BOARD ATTENDEES	FAST Chairwoman Cheryl McQueary, EDIR Chairman Terry Hutchens, Ferrell Blount, Jeff Sheehan, Tracy F. Dodson Jake Alexander and Jack Debnam

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ACTIONS TAKEN	Information only. No action taken.

Adjourned 2:49



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BOARD OF TRANSPORTATION OCTOBER 5, 2016

TIME: 1:15 – 2:45

LOCATION: Room 150

TOPIC	PRESENTER
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Map Act	J. Carr McLamb
Real Property Leases	Sterling Baker
Comments and Wrap Up	C. McQueary, Chairwoman FAST



Funding Appropriations and Strategy Committee

October 5th, 2016

Facilities Management - Leases

Sterling Baker, PE



Lease Overview

~130 leases for buildings and modular units

Roles and Responsibilities

- Department Branch/Unit
 - Identifies need for lease space and provides justification to the Chief Engineer's Office
- DOA State Property Office (SPO)
 - Manages State property transactions
 - Maintains property inventory for all State Agencies
- DOA State Property Office - Attorney General (AG)
 - Reviews and approves leases above \$25k

Lease Overview

Leases are regulated by the following North Carolina Administrative Codes 06B.0206, .0207, .0208, .0212:

- Less than \$5,000: Less than 3 years
 - Department-executes the lease with DOA/AG approved template
- \$5,000 to \$25,000: Less than 3 years
 - Department submits request
 - SPO – executes the lease with DOA/AG approved template
- \$25,000 to \$150,000: More than 3 years
 - Department submits request
 - Advertisement for proposals
 - SPO and Council of State approval
 - DOA/AG draws up lease & executes
- More than \$150,000*
 - Department submits request
 - Advertisement for proposals
 - SPO holds proposers conference
 - SPO and Council of State approval
 - DOA/AG draws up lease & executes



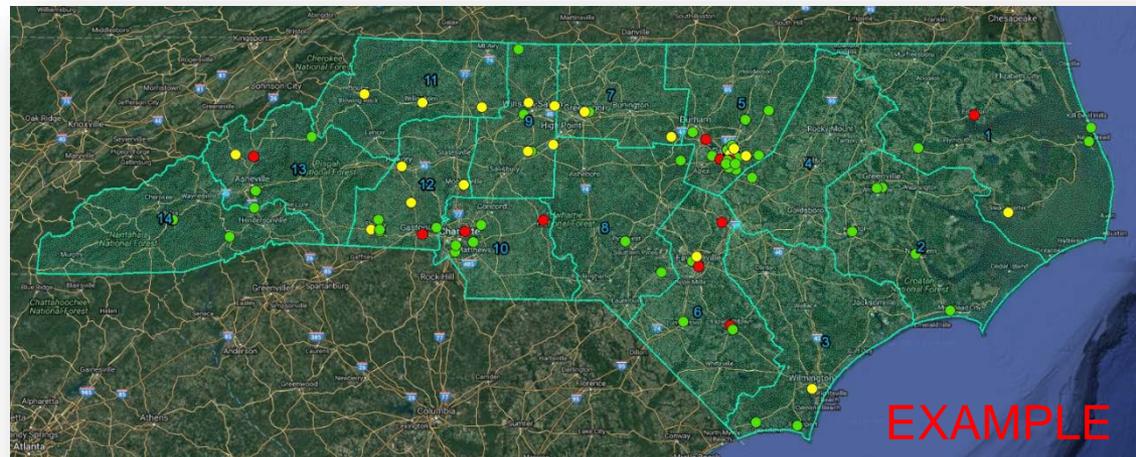
Lease Status Update

- Continue processing lease extensions and initiating new leases.
- Archive and/or organize historic files according to the current retention policy.
- Continue to enhance the database for lease documents for easy access and information
- Maintain a 6 to 9 month look ahead expiration schedule
- Complete the NCDOT owned facilities insurance update due to the Department of Insurance

Upcoming Lease Initiatives

- Finalize any changes to existing procedures necessary to streamline the processes.
- Evaluate existing organizational structure and staffing needs
- Evaluate software options for a more proactive approach
- Space Evaluations

- Condition Surveys
- Scheduling Awareness



Questions?





FAST Committee Meeting – October 2016

Remnant Property & Telecommunication Leases

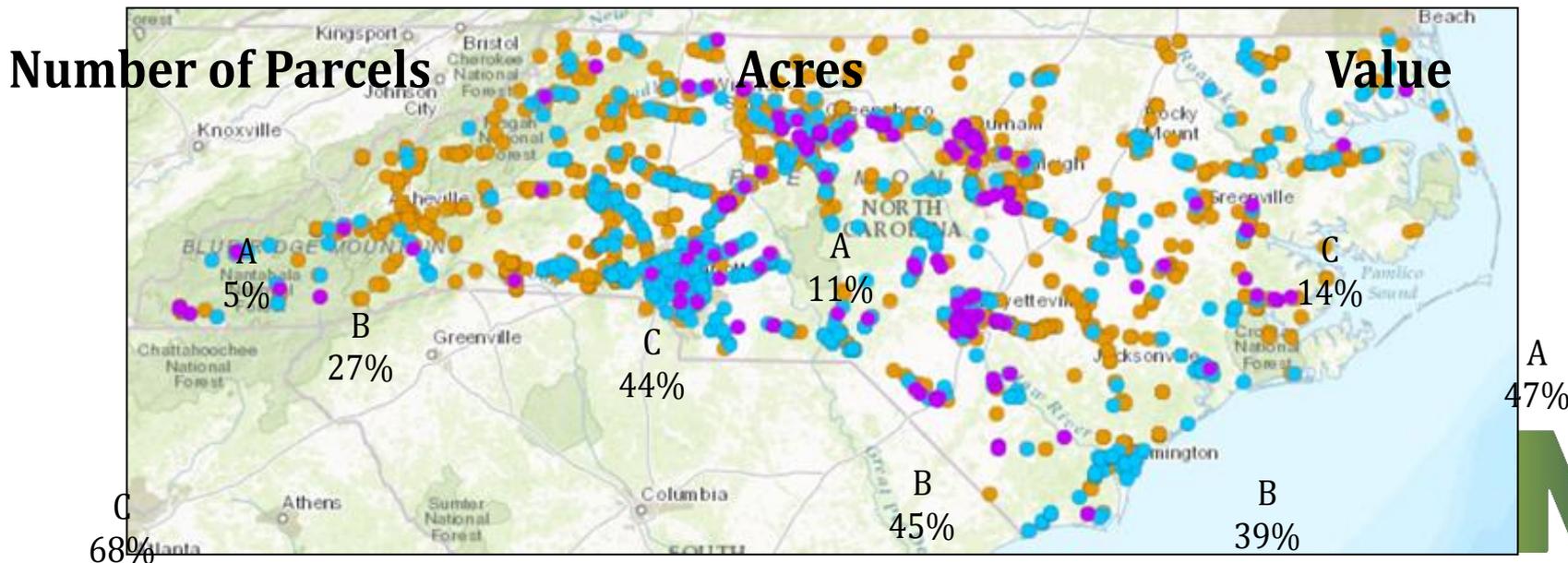
Greg Perfetti, PE, Director of Field Support



Remnant Properties – Report to NCGA

Preliminary Parcel Classification	Number of Parcels	Acres
A	175	540
B	899	2,265
C	2,245	2,259
TOTAL	3,319	5,064

Estimated Fair Market Value
A - Developable, stand alone \$5,682,784
B - Assemblage, more extensive use \$4,727,653
C - Of interest to adjacent owner \$1,718,992
\$12,129,429



Remnant Properties – Disposition

Current (NCAC 2B.0143)

- Public sale by sealed bid or auction
- Advertise in local newspaper
- Appraisal required unless $< \frac{1}{2}$ acre & value $< \$1,000$
- No upset bids

Proposed (Modify NCAC via Rule Making or Statute)

- Increase flexibility
 - Advertising
 - Determining FMV & when appraisals required
 - Upset bids
 - Direct negotiation
 - Use of NC licensed real estate brokers



Questions before transitioning to Telecommunication Program?



Wireless Telecommunications Program

Purpose

- Utilize Department's real property to extend broadband coverage, leasing space, modest revenue generation

Proposed

- DOA delegates authority to DOT
 - MOA has been developed
 - COS approval required
- Request for Applications (RFA)
- Industry Day for prospective respondents
- Issue Addendum to RFA
- Receive applications from respondents



Wireless Telecommunications Program

Master License Agreement

- 10 year term, option to renew, co-location, utility systems, maintenance, indemnification, insurance, default, termination, etc.
- Site Addendum(s)
 - Type of installation
 - Administrative and site fees
 - Annual fee escalation

Licensing Rates and Charges

- Type of tower/antenna
- Urban, suburban, rural



Questions?





HIGHWAYS COMMITTEE MEETING MINUTES

DATE: 09-07-2016 TIME: 10:30 AM – 12:00 PM LOCATION: 150

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

AGENDA TOPICS

1. APPROVAL OF AUGUST MINUTES	
DISCUSSION SUMMARY	
ACTIONS TAKEN	Minutes were approved as written.

2. FACILITIES MANAGEMENT – STERLING BAKER, PE	
DISCUSSION SUMMARY	<p>The Facilities Unit is responsible for Energy Management, Facilities Maintenance, Capital Projects, Statewide DMV/SHP Facility Support, Maintenance Support for Building Assets in Raleigh and Leasing and Real Property Management. Energy Management's responsibilities include the annual strategic energy saving plan as well as overseeing and managing performance contracting in cooperation with the State Energy Office. These performance contracts include an energy performance contract for downtown Raleigh buildings and a statewide highway lighting contract. Facilities Maintenance is responsible for coordinating maintenance needs statewide for the Department's 2,347 buildings as well as DMV and SHP buildings. Additionally, they coordinate leasing and real property management statewide. The Capital Projects Office develops and maintains the Facility Condition Assessment Program and the Six Year Capitol Improvement Program. They also oversee consultants performing design work, state construction office reviews, contract bidding & award, construction administration and final approval and occupancy. Additionally, the Capital Projects office manages the intensive or large scale repair and renovation projects, designs and manages the construction of salt domes & salt storage bays for the State Road Maintenance unit and performs space analysis reviews to provide optimization of NCDOT owned and leased facilities. It was summarized that currently, the average asset age of the Departments facilities is 52 years and 63% of facilities are over 40 years old.</p>
ACTIONS TAKEN	



HIGHWAYS COMMITTEE MEETING MINUTES

3. BUSINESS 40 PROJECT – PUBLIC INVOLVEMENT PROCESS – PAT IVEY, PE

<p>DISCUSSION SUMMARY</p>	<p>Designed in the early 1950s by Winston-Salem, Business 40 opened in 1958 as the East-West Expressway. It was later designated as the first section of I-40 in NC. (Later designated as I-40 Business with the new I-40 was constructed.) Rehabilitating this 1.2 mile section of I-40 Business through downtown Winston-Salem involves complete reconstruction of pavement and 11 bridges between west of Fourth St to east of Church St. There are 2 full and 4 partial interchanges. The total project cost (including ROW, Construction and Utilities) is \$90M. Traffic volume in this area is around 75,000 vpd which created challenges for how to accomplish the work while accommodating such a high volume of traffic. The area contains historic districts, a substantial amount of development and high crash rates due to short weave distances. As such, an Accelerated Construction Technology Transfer (ACTT) workshop was held in April 2006 just before beginning the NEPA process in May 2006. The ACTT helped the project team think outside the box about how to build the project. They also hired a consulting firm to do an unprecedented amount of public involvement that has been going on for the past 10 years to ensure all the stakeholders (residents, businesses, churches, the City, hospitals, EMS, Chamber, etc.) had buy in on the project. The idea of closing the road during construction was brought up as a possible solution to dealing with the high volume of traffic. There were two options for the public to choose from: close the road for 2 years to substantially complete the project or partially close the road for 6 years. A consultant was hired to assist the Department in the public outreach needed to come to a consensus. The intensive outreach included local outreach specialists to walk the neighborhoods and conduct surveys including several bi-lingual specialists. They knocked on 23,000 doors and held 23 neighborhood meetings. Additionally, they conducted over 200 business surveys/stakeholder presentations as well as exit ramp, mall and shopping center surveys. Other forms of communication included a bi-lingual project website and newsletters, project office in the study area, and on-line and call in surveys. (This approach was chosen by FHWA as an example of "best practices" in two categories regarding Outreach and Environmental Justice in NEPA.) The results were overwhelmingly in favor of closing the road completely for 2 years. After that, the team focused on the design of the actual project and additional public outreach was conducted. Work groups were created for 1 - Bridge and Design and 2 - Traffic and Community Issues. The work groups met a total 18 times to discuss aesthetics and enhancements as well as traffic impacts and detour routes. The City of Winston-Salem has committed nearly \$10M for enhancements which has been highly supported by the community. There was also a community-appointed naming committee that is in the process of selecting the name from over 1800 submitted suggestions. The Design Build project was awarded and on the Board's agenda for approval this month.</p>
<p>ACTIONS TAKEN</p>	<p></p>



HIGHWAYS COMMITTEE MEETING MINUTES

4. FY 2017 MAINTENANCE ALLOCATION FORMULA – DELBERT RODDENBERRY, PE	
DISCUSSION SUMMARY	<p>This presentation is a follow up to last month's presentation on Maintenance Allocations and gives more details on the allocation formulas. The distribution formulas for the General Maintenance Reserve (GMR), Pavement Treatments and Bridge Program were reviewed. It is important to note that the inventory considered for the GMR formula is comprised of 70% lane miles and 30% square feet of bridge deck. The needs portion is made up of non-assessed needs acquired via historical expenditure data plus assessed needs acquired by condition assessments. Non-assessed elements include items such as traffic control devices, roadway lighting, rest area maintenance, river ferries and major events. Assessed needs are determined through the Maintenance Condition Assessment Program (MCAP), Pavement Condition Survey (PCS) and National Bridge Inspection Standards (NBIS). The MCAP is performed on a quarterly basis with random survey data collection for elements such as drainage, shoulders, and pavement markings. The PCS is done year round and assesses concrete and asphalt pavement distresses. The NBIS is done via manual data collection with each bridge being inspected on a two year cycle. An example calculation was reviewed of how the distribution formula was applied. Additionally it was noted that there was an adjustment after the calculations were completed to account for inmate labor to calculate each Divisions Final GMR distribution.</p>
ACTIONS TAKEN	



Transportation

HIGHWAYS COMMITTEE AGENDA

BOARD OF TRANSPORTATION OCTOBER 5, 2016

TIME: 10:30 AM – 12:00 PM

LOCATION: 150

TOPIC	PRESENTER	TIME
Technology and Roadside Management	Don Lee, CPESC	20 min
Geosynthetic Reinforced Soil (GRS) Integrated Bridge System Pilot Project	Louis Mitchell, PE	20 min
Update on Logo Discussion	Kevin Lacy, PE	20 min
Other Discussion	Jake Alexander	30 min



Board of Transportation Highways Committee

October 5, 2016

*Geosynthetic Reinforced Soil (GRS)
Integrated Bridge System Pilot Project*

Louis Mitchell, PE
Division 10 Engineer



Bridge Replacement Projects



Traditional Substructure-Pile Foundation



GRS Block Wall Constructed



Project Goals & Selection Criteria

- GRS Project Goals
 - Reduce Time Required for Construction
 - Reduce Cost Required for Construction
- GRS Bridge Candidate Selection Criteria
 - Sub-Regional Tier Route
 - Single Span
 - Low ADT Volume
 - No Potential for Scour
 - Shallow Foundation
 - Perpendicular Channel Alignment Relative to the Road

Factors to Consider about GRS

- Design Considerations
 - Low flow velocity streams with non-scour potential
 - Tailored for Single Span Bridge Replacements
 - GRS abutment design allows for uniform settlement between the super and substructures – (KEY FEATURE) – takes the “bump out of the road” caused by settlement

Factors to Consider about GRS

- Construction Considerations
 - GRS materials (stone block, geotextile fabric, aggregate) is not adversely effected by adverse weather that can halt or delay installation
 - Uses locally supplied material to construct
 - Can be built with small staff of construction workers & minimal equipment
 - Reduces the amount of concrete & steel used in constructing the bridge = lower cost

NCDOT & FHWA Partnership

- FHWA approached the NCDOT in 2008 about the possibilities of testing the technology. At the time only Ohio and Nevada were using GRS
- FHWA approached NCDOT about using GRS-IBS construction again in 2015
- A Task Force was established that included FHWA, NCDOT Structures Management, Geotechnical, Hydraulics and Division 10
- STV Engineers became our partner in this project and provided the roadway plans while Structures Management provided the structure plans



FHWA Federal AID Grant Awarded

- NCDOT received the Accelerated Innovation Deployment (AID) Grant through the Technology Innovation Deployment Program (TIDP) for our GRS-IBS bridge replacement project
- FHWA Center for Accelerating Innovation and the State Transportation Innovation Council network search for innovative projects in each state and decide if any are eligible for their multifaceted TIDP
- The AID Grant awarded to NCDOT \$400,000.00
- The amount of the grant awarded is intended to off-set the cost associated with the deployment risk that the state transportation agency assumes to incorporate the innovation into its design



Anson County Bridge 201



Anson County Bridge 201

- The Task Force Selected Anson Bridge 201 on SR 1600 (Rocky Mount Church Rd.) over Big Branch

Stats on the Existing Bridge

- Single Span – One Lane Bridge – **Built in 1958**
- ADT count of 220 vpd (2011 count)
- Classified as Structurally Deficient
- Sufficiency **Rating of 19.72%** out of a possible 100%
- Posted with a weight limit restriction at the time of replacement
- Road Classification – Local



Foundation Excavation



Foundation Construction Downside

- This was the most time consuming part of the GRS construction
- Foundations were large: 40 ft. across x 10.5 ft. back into the roadway x variable depth
- Required to be founded on solid rock (measured at blow count of 100 per ft.) with an average depth = 14 ft.



Foundation Construction Upside

- Elimination of concrete and steel material = potential cost savings
- Backfill of footings using stone and fabric was quickly accomplished
- Minimal personnel required for the construction of the foundation

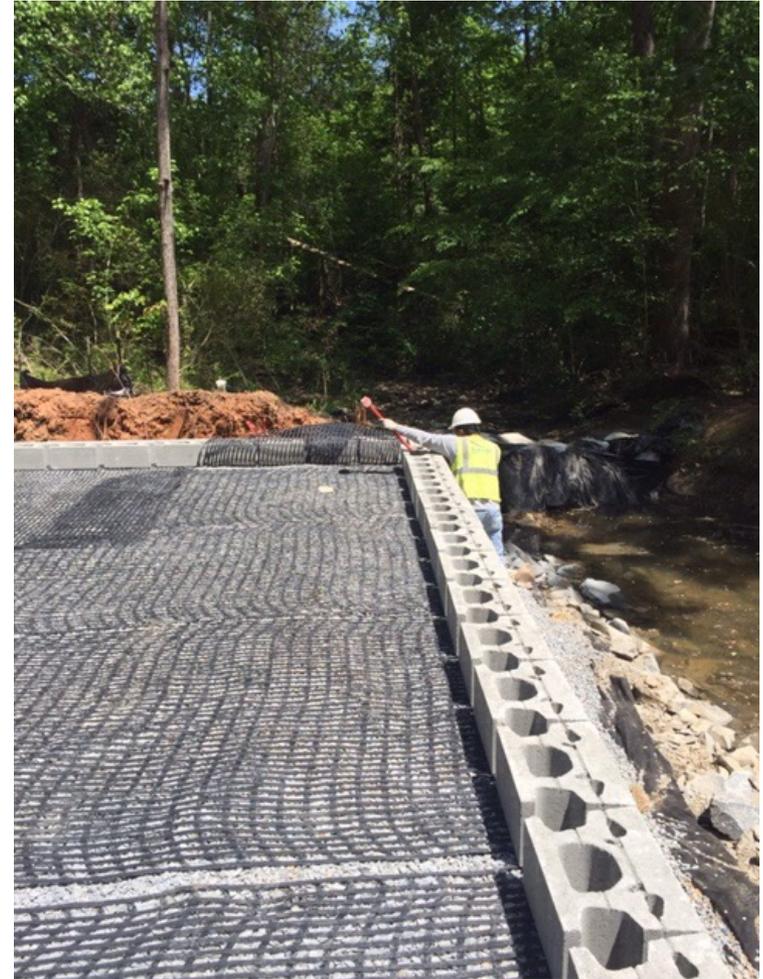


Construction of GRS Block Wall



Geogrid and SRW (Segmental Retaining Wall) Block

- Geogrid was used for the reinforcing material instead of geotextiles
- NCDOT already has QA/QC procedures in place for Geogrid and SRW (segmental retaining wall) blocks so these were used rather than geotextiles and cinder blocks that FHWA typically recommends for GRS-IBS construction
- NCDOT expects to get better long-term results from using Geogrid and SRW material



Random Photos of the Bridge Construction



Constructed GRS Abutments



Cored Slabs Set



View of the GRS Abutment



Armoring for Slight Bend
of the Creek



Construction Preferences & Inspection Challenges

- NCDOT preferred concrete cap & elastomeric bearing pads to rest the cored slab superstructure upon
- FHWA encourages a direct placement of the cored slab units upon the GRS abutments without a reinforced concrete cap with the claim that eliminating the cap provides additional savings in both time and cost
- Inspection of the bearing connections will be difficult with GRS design since the block wall extends out about 2 ft.



What are the Future Possibilities of GRS-IBS for NCDOT ?

- **COMPARING TIME & COST BETWEEN OUR GRS PROJECT AND A CONVENTIONALLY CONSTRUCTED BRIDGE OF NEAR EQUAL PARAMETERS**

- Anson Bridge 201 on Rocky Mount Ch. Rd. (Our GRS Project) – *recently completed*

- 1 @ 63' Cored Slab on 90 Degree Skew on GRS Abutments

- **Awarded Contract Amount = \$414,024.79**

- Bid Tab Items for GRS Abutment Construction in Contract = \$124,819.06

- GRS Foundation Construction took 3 days/side + 2 days/side for GRS Const.

- Total Working Days to Build Substructure = 10 Days **(Could have been done faster)**

- Anson Bridge 315 on Pope Rd. (Driven Piles) – *currently under construction*

- 1 @ 83' Cored Slab on 90 Degree Skew on Drilled-In H-Piles

- **Awarded Contract Amount = \$596,004.47**

- Bid Tab Items for Drilled Shaft Construction in Contract = \$81,584.31

- Drilled-In H-Pile Construction took 2 days/side + 3 days/side for concrete to set-up

- Total Working Days to Build Substructure = 10 Days



What are the Future Possibilities of GRS-IBS for NCDOT?

- GRS does retain fill in a similar manner to MSE but it also includes a surcharge (the superstructure) applied to the abutment wall that is not a factor for MSE walls
- The basis for approval by NCDOT for this GRS-IBS pilot project was that bridges of similar construction have already been built and put into service in other states and the empirical data validates the use of this application

- Nevertheless – there is *One Big Benefit to GRS-IBS bridges:*

The use of the geosynthetic reinforcement eliminates

“THE BUMP IN THE ROAD”

BY PROVIDING UNIFORM SETTLEMENT BETWEEN
SUPERSTRUCTURE & SUBSTRUCTURE

- That bump in the road equates to a lot of maintenance dollars over time.



Anson County Bridge 201



Bridge Selection and FHWA AID Grant Award



ANSON COUNTY BRIDGE 201 IN DIVISION 10



The Road is Open to Future Possibilities



In Summary

- More opportunities to employ GRS-IBS construction are required before we can conclude a predictable savings in time or cost
- Division 10 is pleased with the construction of our pilot project and does not foresee significant issues with future maintenance needs
- Division 10 recommends that GRS-IBS continue to be considered as an alternative to conventional methods in practice to collect a baseline that allows assessment of benefits and/or issues
- Over 300 GRS-IBS bridges have now been built in 45 states

Questions?





Board of Transportation Highways Committee

October 5, 2016

Technology and Roadside Management

Don G. Lee, CPESC

State Roadside Environmental Engineer



Technology and Roadside Management



Vegetation Management Operations



Alternatives to Mowing and Herbicides

Vegetation Management Operations



Alternatives to Mowing and Herbicides



Vegetation Management Operations



Alternatives to Mowing and Herbicides

Vegetation Management Operations



*Alternatives to Mowing
and Herbicides*



Roadside Management



Turf Management



Herbicide Placement and Tracking



Roadside Vegetation Management Operations:

- Mechanical and Herbicide Control
- Map Work Accomplished
- Litter Management
- Alternatives to Mowing and Herbicides



Herbicide Placement and Tracking



Roadside Vegetation Management Operations:

- Utilize Precision Agricultural Technology
- Cost \$2,500 per unit

Herbicide Placement and Tracking

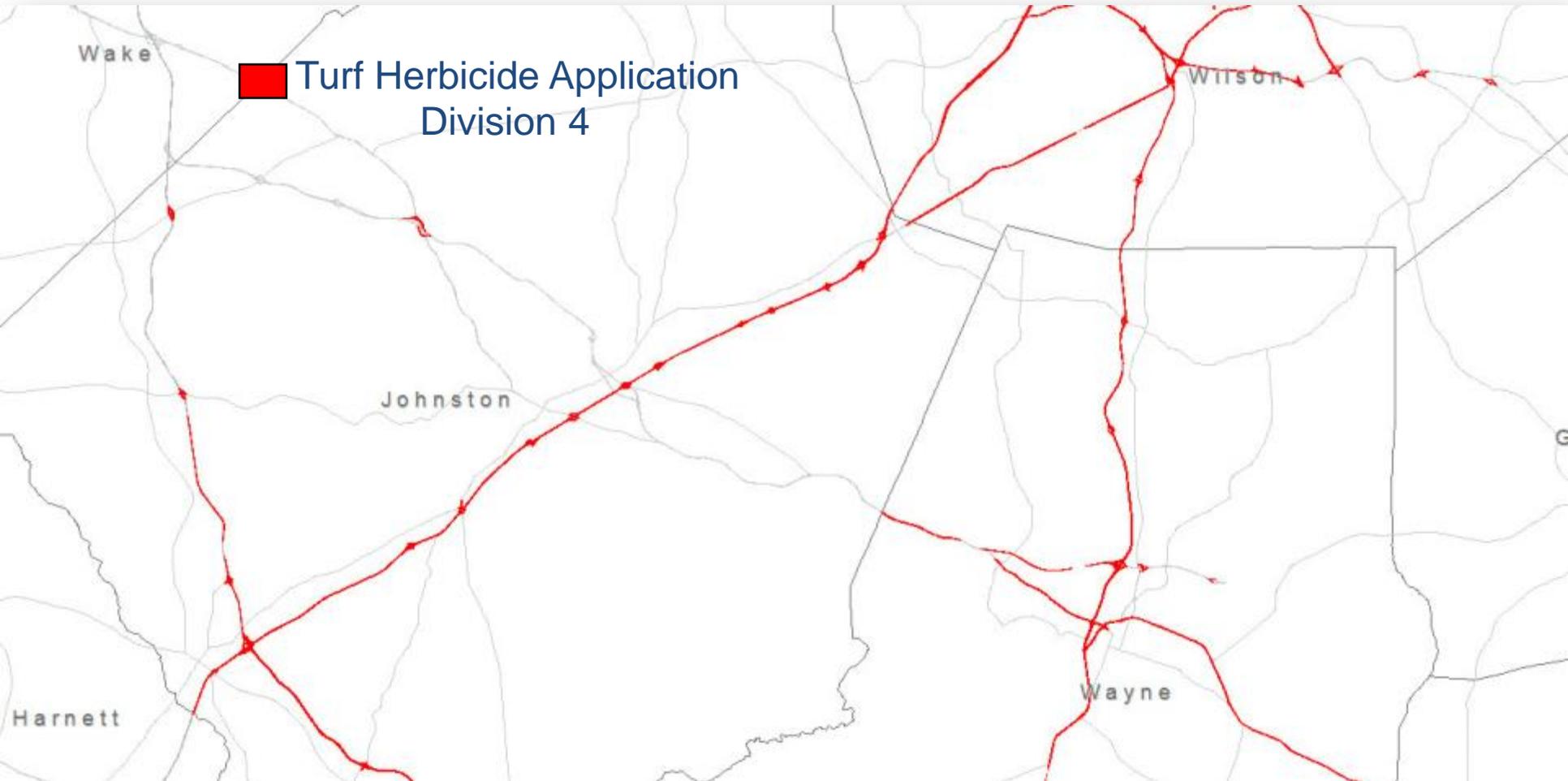


Roadside Vegetation Management Operations:

- Precision Placement Technology can map the work that has been accomplished.
- Managers will be able to evaluate performance and improve efficiency



Herbicide Placement and Tracking



Brush and Tree Management

Year 1

Year 2



Brush and Tree Management

Year 2



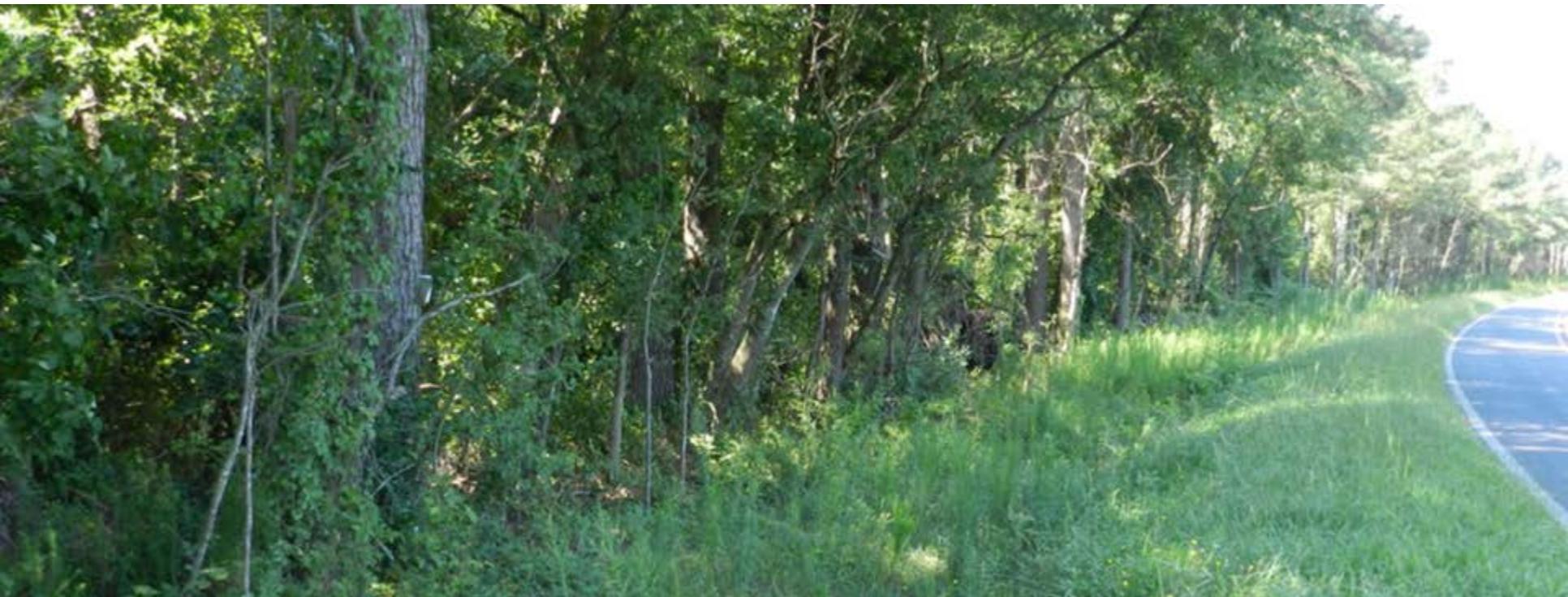
Brush and Tree

Year 3



Brush and Tree

Year 4



Herbicide Placement and Tracking



- Mapping capabilities can show managers where product was placed and when.
- Managers can respond to complaints
- Managers can now plan to return to route in four to six years.



Mowing Operations



Tracking Mowing Operations in Division 10

Division 10 required GPS in their 2016 mowing contracts

GLOBAL POSITIONING SYSTEM (GPS)

EQUIPMENT

The Contractor shall provide the following types of equipment:

- A minimum of five (5) tractors with operators, equipped with a GPS with a monitoring software subscription.
- A minimum of one (1) vehicle, with a supervisor, equipped with a GPS with a monitoring software subscription. **The supervisor shall also have a tablet or iPad with access to the internet for the purpose of monitoring and tracking the locations of their tractors.**

All tractors provided by the Contractor shall be equipped with permanent mounted GPS Devices **such as the Motorola Locator 2000 or equivalent model**. The GPS units must be accompanied with an annual monitoring subscription that will begin and cover the period between April 1 and November 30 of each year.

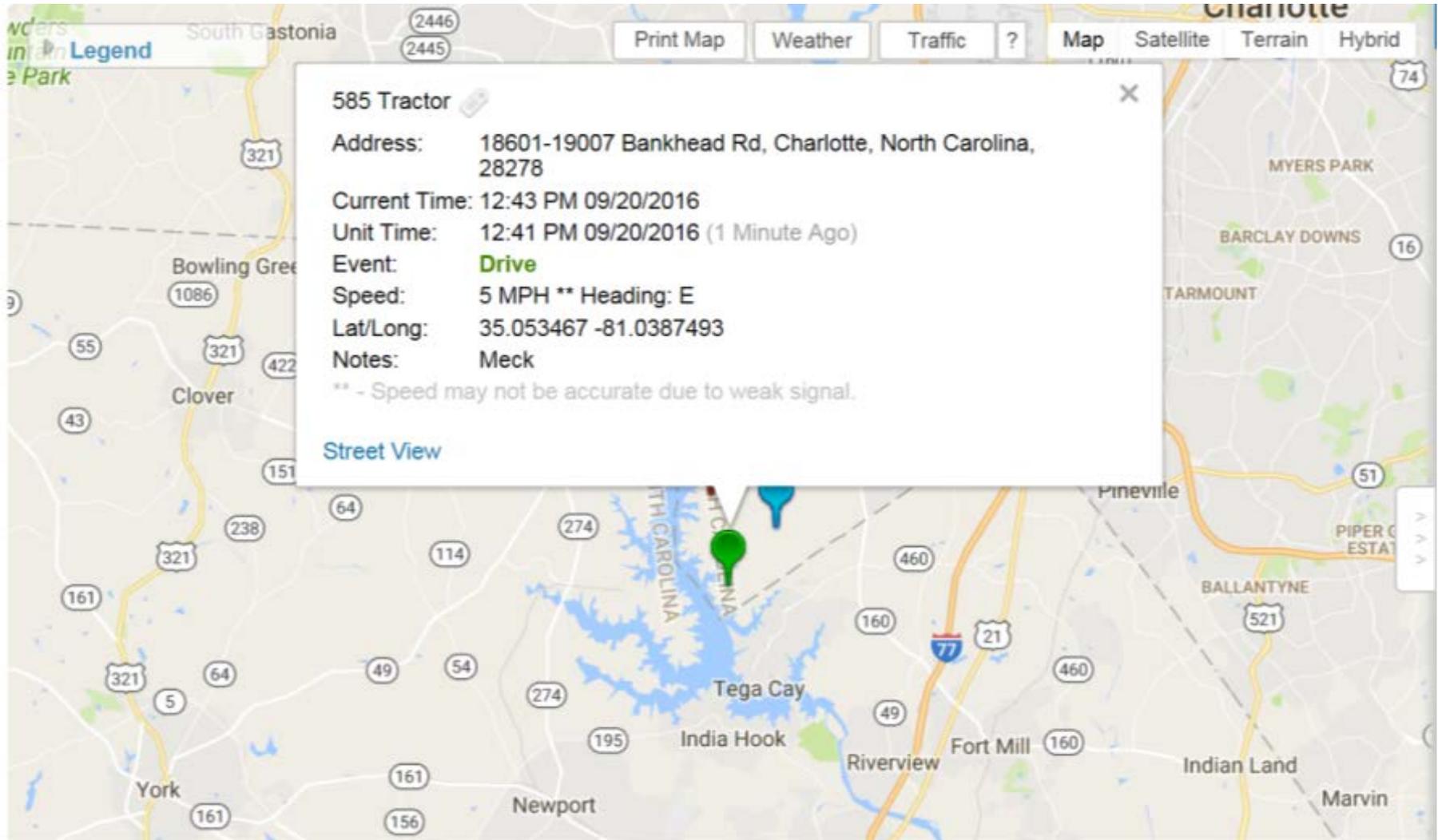
GPS MONITORING SOFTWARE SUBSCRIPTION

A fee will be paid for the GPS monitoring software subscription. The unit bid price will cover service from April 1st – November 30th of each of the optional, renewable five (3) year terms of the contract.

Maps show all vehicles, location, and operating status

The screenshot displays a web-based vehicle tracking application. At the top, there are navigation tabs: "Vehicle Status", "Maps" (which is selected), "Reports", and "Help". Below these tabs is a map of the Lake Wylie region, showing the border between North Carolina and South Carolina. The map includes various roads, such as I-77, I-485, and several state routes (e.g., 49, 160, 1102, 1105, 1100, 98, 460, 65, 160, 252, 21, 1480, 1655, 741, 1081, 1613, 1132, 274, 152, 918, 279, 1164, 51). Several vehicle locations are marked with colored pins: two red pins and three green pins. The right-hand side of the interface features a "Vehicles" panel with a "Manage Visible Groups" button and a search box. Two groups are listed: "Cabarrus" and "Mecklenburg", both with checked checkboxes. Under "Cabarrus", five vehicles are listed: 249 (Willie Funderburke), 553 Tractor, 567 Tractor, 572 Tractor, and 574 Tractor. Under "Mecklenburg", seven vehicles are listed: 383 (Richie Drake), 552 Tractor, 556 Tractor, 570 Tractor, 573 Tractor, 585 Tractor, and 609 Tractor.

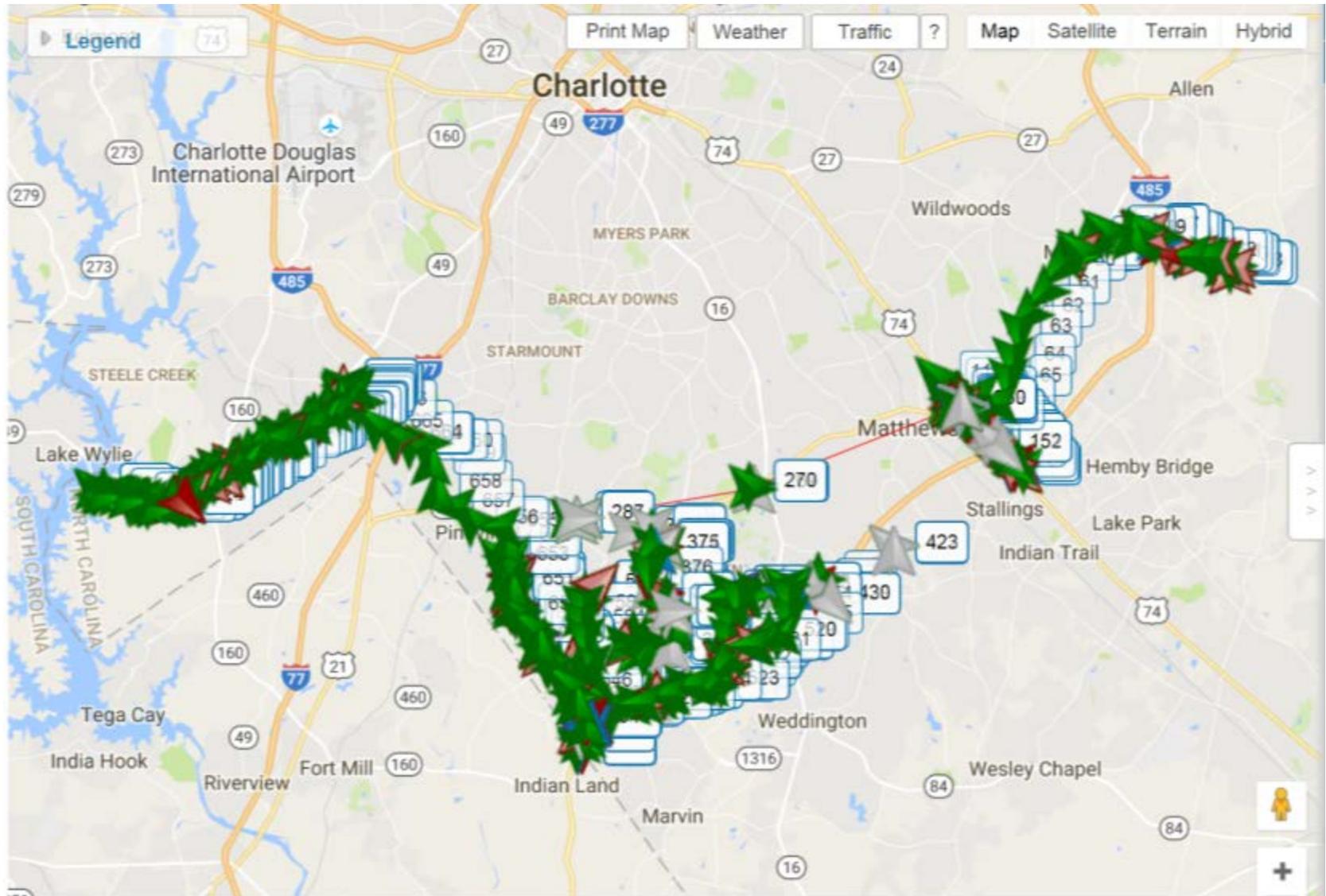
System Provides Complete Information



Vehicle Status shows which mowers are currently operating and their location

Vehicle	Groups	Address	Date and Time	Event
249	 	1408-1498 Iceman St, Monroe, North Carolina, 28110	Sep 19, 2016 8:57 AM (6 Hours Ago)	Ignition Off
383	 	15801-16099 NC-49, Charlotte, North Carolina, 28278	Sep 19, 2016 2:46 PM (Seconds Ago)	Travel Start
552 Tractor	 	2407-2415 State Rd 1128, Charlotte, North Carolina, 28273	Sep 19, 2016 3:19 PM (27 Minutes Ago)	Ignition Off
553 Tractor	 	7419-7533 NC-73, Mount Pleasant, North Carolina, 28124	Sep 17, 2016 12:27 PM (2 Days Ago)	Ignition Off
556 Tractor	 	14151-14227 NC-49, Charlotte, North Carolina, 28278	Sep 19, 2016 3:43 PM (3 Minutes Ago)	Ignition Off
567 Tractor	 	8260 Fisher Rd, Mount Pleasant, North Carolina, 28124	Sep 16, 2016 1:13 PM (3 Days Ago)	Ignition Off
570 Tractor	 	13334-13464 NC-49, Charlotte, North Carolina, 28278	Sep 19, 2016 3:46 PM (Seconds Ago)	Travel Start
572 Tractor	 	151 State Rd 2604, Mount Pleasant, North Carolina, 28124	Sep 17, 2016 12:05 PM (2 Days Ago)	Ignition Off
573 Tractor	 	14500 State Rd 1102, Charlotte, North Carolina, 28278	Sep 19, 2016 3:40 PM (6 Minutes Ago)	Ignition Off
574 Tractor	 	126 Bessie Dr, Kings Mountain, North Carolina, 28086	Sep 16, 2016 2:55 PM (3 Days Ago)	Ignition Off

Vehicle Trails show where each mower has been operating for a specific time period



Bid Prices Received on GPS

GPS Outfitting Fee – 1 each per contract:

- Cabarrus Bids**

Bid #1 - \$1,000.00

Bid #2 - \$1,000.00

- Mecklenburg Bids**

Bid #1 - \$1,000.00

Bid #2 - \$1,500.00

GPS Subscription Fee – 1 each per contract:

- Cabarrus Bids**

Bid #1 - \$500.00

Bid #2 - \$1,250.00

- Mecklenburg Bids**

Bid #1 - \$500.00

Bid #2 - \$1,250.00



Bid Prices Received on GPS

**Additional yearly cost of between
\$1,500 and \$2,750 per contract.**



GPS Tracking Mowing

Benefits of GPS tracking mowing:

- Verify routes have been mown for billing purposes.
- Immediate answer to complaints of road not being mown.
- Location and time reports verify damage complaints quickly, at times to the benefit of the Contractor.
- Expedites mowing inspection; no longer have to drive around to find mowers.
- Compare routes from day to day.
- Verification that minimum equipment specified is being adhered to for any given day.
- Can keep up with all mower locations at all times.
- Allows DOT to gauge efficiency.
- An important management tool for both DOT & Contractors.



Litter Management

- Central REU is currently upgrading its existing Adopt-A-Highway (AAH) website/database to develop a more comprehensive statewide litter management system.
- Existing AAH Litter Pickup Reports allow users to click [“Use My Current Location”](#) to provide the GPS coordinates of bags of trash & recyclables collected by AAH volunteers and litter sweep participants.

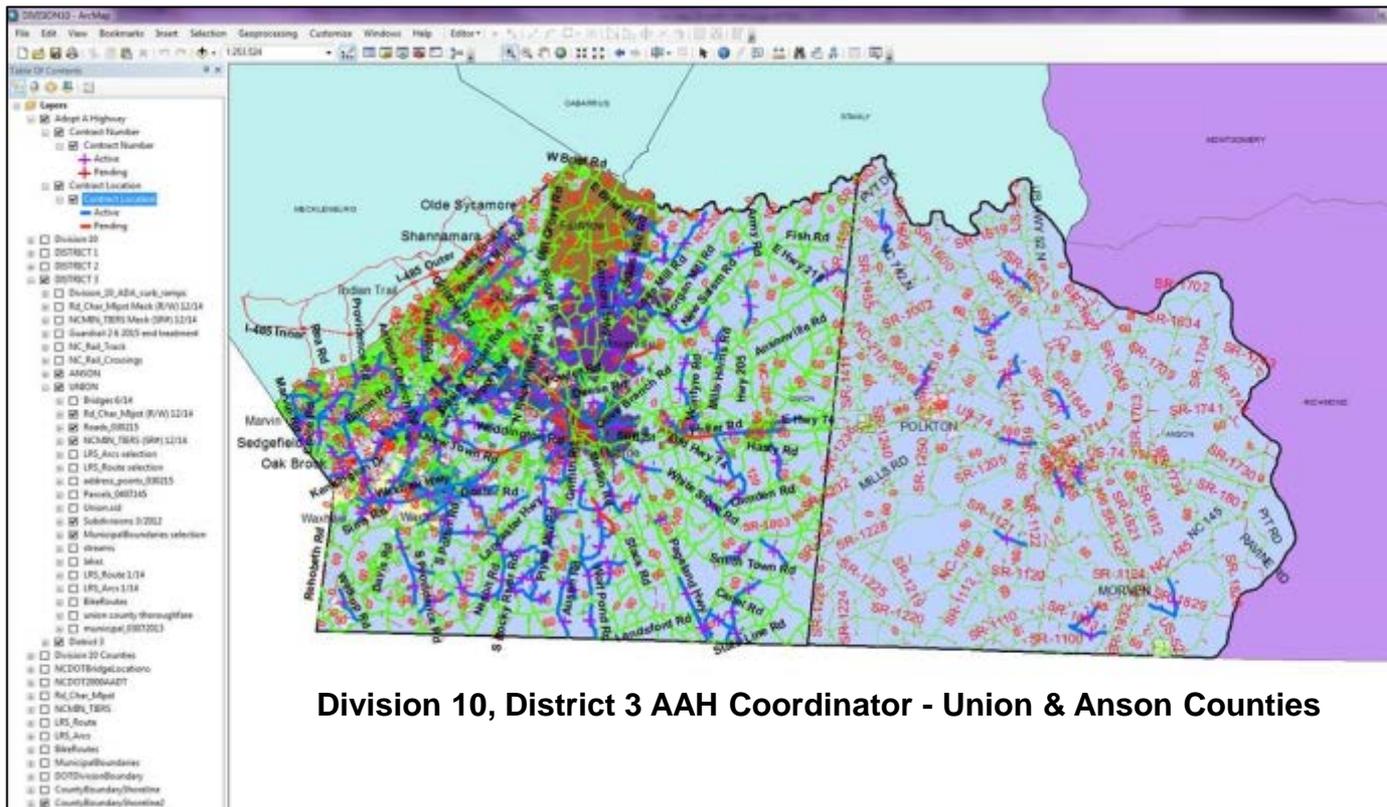
The screenshot shows the NCDOT website interface for the Litter Pickup Report form. The form is titled "Pickup Report" and includes a "Thank you for your contribution!" message. Below this, there are instructions: "Please submit a separate report for each pickup date." and "All fields are required unless otherwise noted." The form is divided into several sections:

- Pickup Information:** Includes a date picker for "Date of pickup" (set to Jan 5, 2016), a checkbox for "Have you already requested that DOT pick up your trash bags?" (set to No), and a checkbox for "Do these bags need to be picked up?" (set to Yes).
- Your Information:** Includes fields for "Contract number", "County", "Full name", "Phone" (with a placeholder (605) 123-4567), and "Email" (with a placeholder someone@ncdot.com).
- Volunteers:** Includes a "Participants" field (set to 0), "Hours per person" (set to 0), and "Total Hours" (set to 0).
- Bags & Recycling:** Includes fields for "Glass", "Metal", "Mixed", "Plastic", and "Other" (all set to 0), and "Total Bags" (set to 0).

A red box highlights the "Exact Location of Bags" field, which contains the text "i. e.: near a mile marker" and a link to "Use My Current Location". A larger red box highlights the same field and link in a larger view, showing a location pin icon and the text "Exact Location of Bags" and "i. e.: near a mile marker".

Litter Management

- Only a few AAH County Coordinators in the Divisions had previously utilized GIS mapping tools to track active and pending AAH contracts in their counties.



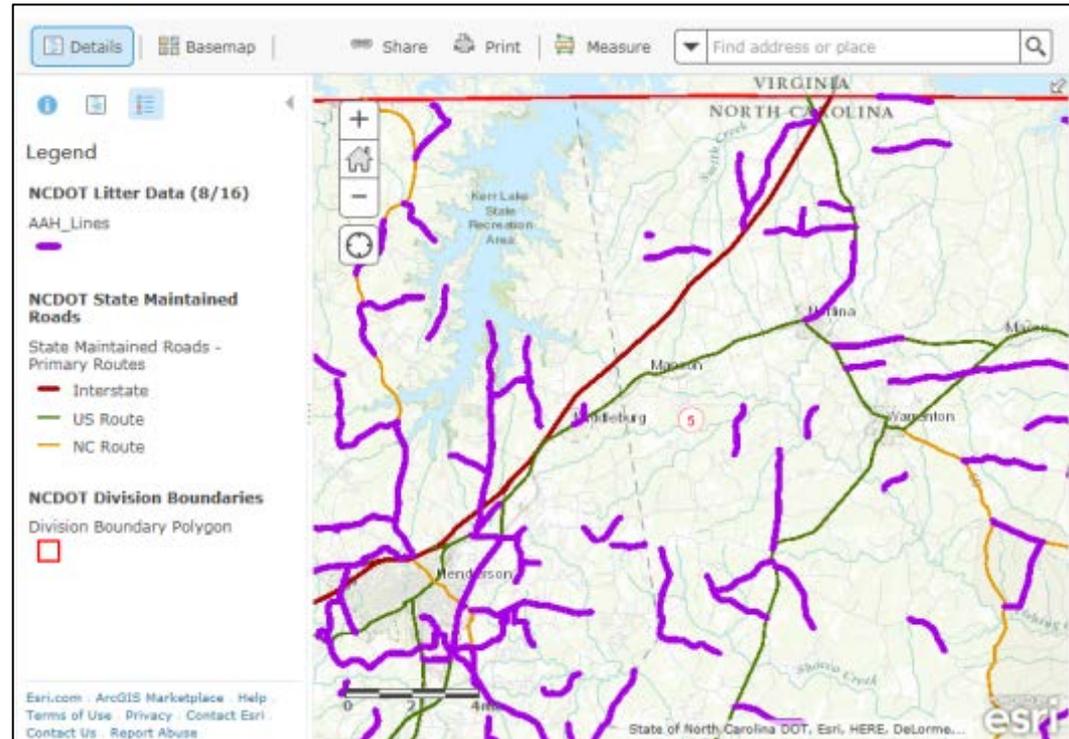
Division 10, District 3 AAH Coordinator - Union & Anson Counties



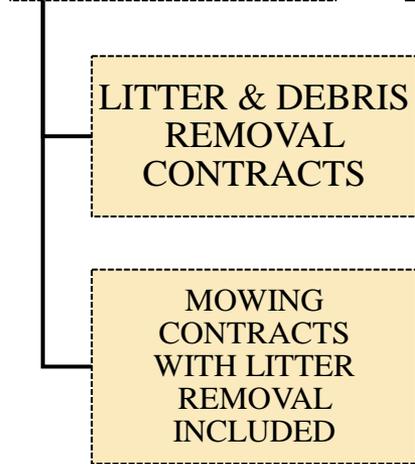
Litter Management



The new statewide litter management system that is currently under development will include GIS mapping features (Intranet and public facing) with real time tracking of AAH, Sponsor-A-Highway, Litter Removal Contracts, DPS/NCDOT Forces event cleanups.



CURRENT STATUS OF LITTER MANAGEMENT DATABASE AUGUST 2016



Active database with pickup reports

Pickup report just added to database

Future additions to database
(Currently tracked outside of database)



Questions?





Transportation

MULTIMODAL COMMITTEE MEETING MINUTES

DATE: 09/07/2016 TIME: 10:30am LOCATION: EIC

MEETING CALLED BY	Chairman Perkins at 10:31
BOARD ATTENDEES	Andy Perkins, Malcolm Fearing, Jeff Sheehan, Sandra Fountain, Edward Curran

AGENDA TOPICS

1. AUGUST MINUTES APPROVAL – Malcolm Fearing	
DISCUSSION SUMMARY	Approval of August Minutes.
ACTIONS TAKEN	Motion to approve was made by Malcolm Fearing and seconded by Sandra Fountain. Motion was approved.

2. FUNDING ITEMS – I-1, I-1A, I-1B, I-2, I-3, I-4	
DISCUSSION SUMMARY	Funding items for Public Transit, Rail, Bicycle and Pedestrian, and Aviation were presented and approved.
ACTIONS TAKEN	Motion to approve all funding items was made by Jeff Sheehan and seconded by Sandra Fountain. All items were approved.

3. TRANSIT UPDATE – KEITH WEATHERLY	
DISCUSSION SUMMARY	Mr. Weatherly commended the Ferry Division on their handling of the mandatory evacuation of Ocracoke Island due to Tropical Storm Hermine. He related excellent preparation of Ferry Division through regular conference calls. Bobby Walston was welcomed back from his recent military leave.
ACTIONS TAKEN	Informational



MULTIMODAL COMMITTEE MEETING MINUTES

4. PUBLIC TRANSPORTATION UPDATE – DEBBIE COLLINS	
DISCUSSION SUMMARY	Ms. Collins discussed her division's work with NC DHHS to launch 6 pilots in their new tracking and billing program (NC Tracks). Staff met with FTA and received training on Section 5307 (urban area formula). There are two upcoming conferences Sept 13 in Winston-Salem for one day and Oct 2-5 they will host the TRB National intercity bus and paratransit conference in Asheville. All PTD grants were posted on August 29 (first time they have all posted at once).
ACTIONS TAKEN	Informational

5. AVIATION DIVISION – BOBBY WALSTON	
DISCUSSION SUMMARY	Mr. Walston discussed the Unmanned Aerial Systems (drones) Federal Aviation Regulation, Part 107 which became effective August 29, 2016. He reported on the International Visitor Leadership Program, on July 19 th the division hosted 21 visitors from 20 countries and discussed several topics including: Federal and NC public policies and regulations for government, commercial, and recreational aviation operations; Environmental permitting, noise and emission standards; Transportation systems and airport infrastructure; Why NC is much different when it comes to our functions compared to GA, CA, And NY. Mr. Walston commented that his staff did an excellent job keeping things current and operating seamlessly while he was away on military leave.
ACTIONS TAKEN	Informational

6. RAIL UPDATE – PAUL WORLEY	
DISCUSSION SUMMARY	Mr. Worley reported on the last PIP contract for Passenger Information Display Systems in the amount of \$248,000 was approved. Completion of the bridge over Hopson Rd in Durham and a 3.3 mile passing track in Morrisville was celebrated on July 12 th . Two grade separation projects are complete and expected to open in October. Staff continues to work with CSXT on essential agreements and public



MULTIMODAL COMMITTEE MEETING MINUTES

	<p>involvement activities related to the Carolina Connector Intermodal Terminal in Rocky Mount. Study is being done to maximize the return on CCX utilizing connections that will provide optimal service levels from the ports, GTP, manufacturing sites and distribution centers.</p> <p>The Queen City Express is on schedule to begin in October 2016. The Carolinian will make two stops daily from October 14th – October 23 across from the fairgrounds enabling fairgoers to use this service.</p>
ACTIONS TAKEN	Informational

7. FERRY UPDATE AND INTRODUCTION – ED GOODWIN	
DISCUSSION SUMMARY	<p>Mr. Goodwin reported that the scheduled routes ran at 98.18% for the month of August.</p> <p>There was no damage to any of the DOT assets during the hurricane event and the evacuation of Ocracoke Island was successful. The interaction between the ferry division and communications kept everyone updated and aware of the ongoing processes.</p> <p>The passenger ferry initiative is progressing.</p> <p>Pictures were presented to show the ongoing construction of the various building projects within the division.</p>
ACTIONS TAKEN	Informational

8. BIKE & PEDESTRIAN UPDATE AND PRESENTATION “ NCDOT BICYCLE & PEDESTRIAN DIVISION ANNUAL UPDATE AND OVERVIEW”	
DISCUSSION SUMMARY	<p>Mr. Johnson gave a brief overview and status updates for ongoing programs, projects and collaborations within DOT and working with other state agencies. The division continues to work toward the goals and objectives developed in the Walk/Bike NC Statewide Master Plan approved by the BOT in 2013. Success of the Planning Grant, Watch For Me NC safety campaign, and Active Routes To School Program were noted.</p> <p>The 20th anniversary of the Walk to School event will be on October 5th and</p>



MULTIMODAL COMMITTEE MEETING MINUTES

	<p>all were invited who would like to attend and show support.</p> <p>The positive role of Law Enforcement Officers was mentioned as well as the growing movement toward “active living by design” in cities and new areas of development.</p> <p>The Committee requested Mr. Johnson provide them with budget figures for the past few years and recommended a request be made to the Legislature for additional funding for B & P in the future.</p>
ACTIONS TAKEN	Informational

Committee Adjourned at 11:27



MULTIMODAL COMMITTEE AGENDA

BOARD OF TRANSPORTATION OCTOBER 5, 2016

TIME: 10:30am

LOCATION: EIC

TOPIC	PRESENTER	TIME
Call to Order	Chairman Perkins	10:30
Approval of Minutes	Chairman Perkins	10:30-10:35
Funding Items (PTD Informational ONLY)	Transit Directors	10:35-10:50
Transit Update	Keith Weatherly	10:50-10:55
Public Transportation Update	Tammy Montanez	10:55-11:00
Bicycle and Pedestrian Update	Ed Johnson	11:00-11:10
Rail Update	Paul Worley	11:10-11:15
Ferry Update	Ed Goodwin	11:15-11:25
Aviation Update and Presentation "Division of Aviation Quarterly Briefing"	Bobby Walston	11:25-12:00
Adjourn	Chairman Perkins	12:00



October 5, 2016

Division of Aviation Quarterly Briefing

Bobby Walston, Director



Airport Projects!

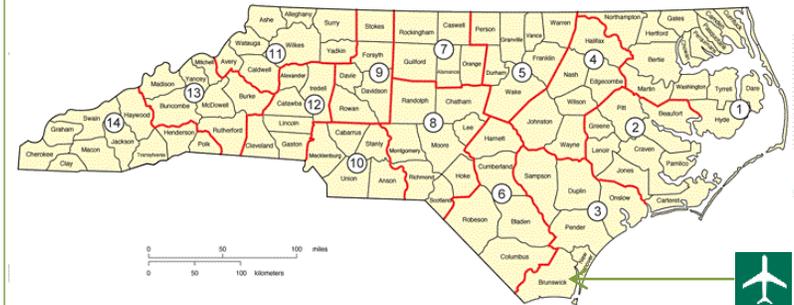


Cape Fear Regional Jetport- East Ramp Rehabilitation



FAA contributed over \$1 Million for this important project for one of North Carolina's busiest General Aviation Airports.

Brunswick County
Division 3



- Airport provides year-round tourist access to the Brunswick County Islands.
- Project included milling of existing pavement.



Cape Fear Regional: Before



Cape Fear Regional: After



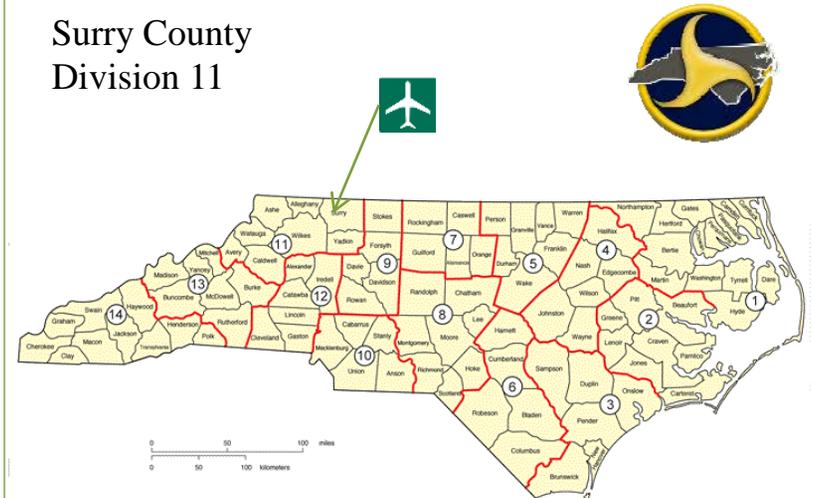
Mount Airy/Surry County Airport- Runway Extension



The relocation of Holly Springs Road made way for a runway extension from 4,300 feet to 5,500 feet. Site preparation is currently underway.

Cost of road relocation: \$4.9 M
Total cost of runway extension: \$8.5 M

Surry County
Division 11



- Longer runway will allow Surry County to compete with larger airports in NC.
- Additional length will accommodate business jets more safely.



Mount Airy Road Relocation- Before



Mount Airy Road Relocation- After



Mount Airy Runway Extension Site Prep- In progress

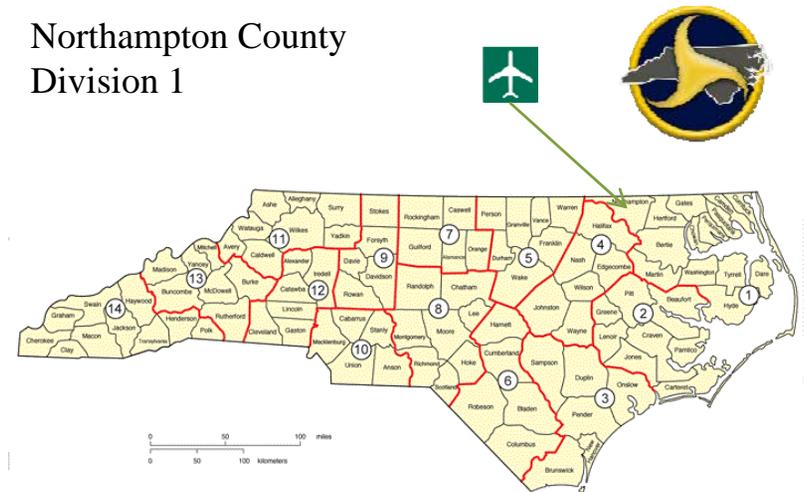


Halifax-Northampton Regional Airport - Approach Landing System Installation



- Halifax-Northampton Regional Airport opened in 2009, replacing an older facility. This was the final project needed to complete the new airport.
- Cost of the system was \$1.3M (federally funded).

Northampton County Division 1



- The system, known as a “MALSR”, is a “Medium-Intensity Approach Lighting System and Runway Alignment Indicator Lights”.
- System required a “catwalk” to avoid environmentally sensitive areas.



Halifax-Northampton Regional Airport - Approach Landing System Installation

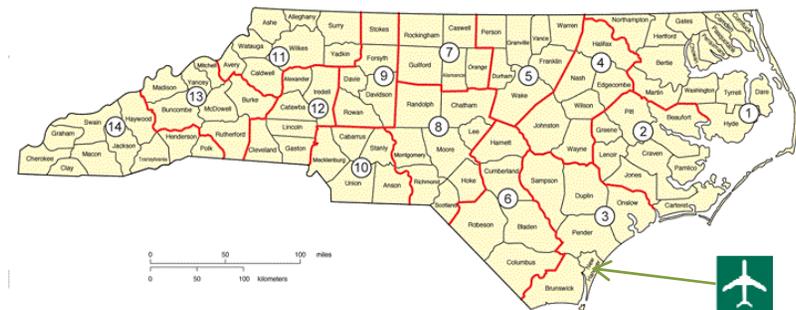


Wilmington International Airport – North General Aviation Apron Rehabilitation

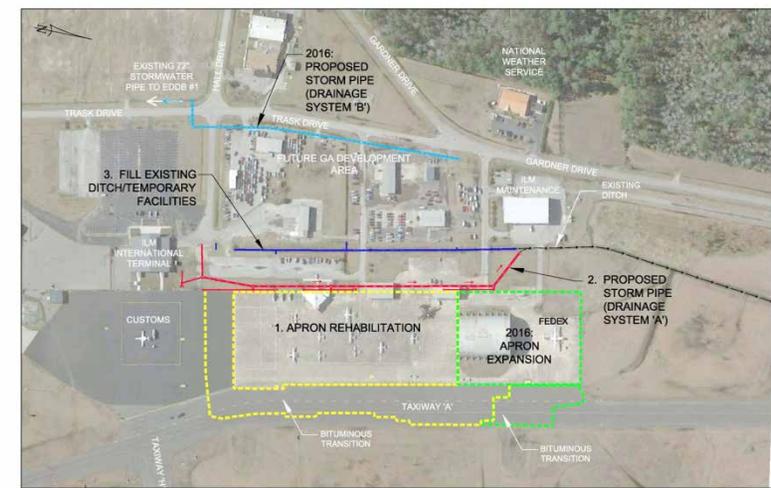


- Cost of the project was \$6.8M, of which \$500,000 was NCDOT funding.

New Hanover County Division 3



- Project included apron rehab., storm water improvements, and expansion of the existing apron area.
- Un-bonded concrete was used to overlay the existing WWII-era concrete apron.



Wilmington International North Apron- Before



Wilmington International North Apron- During



Wilmington International North Apron- During



Wilmington International North Apron- After

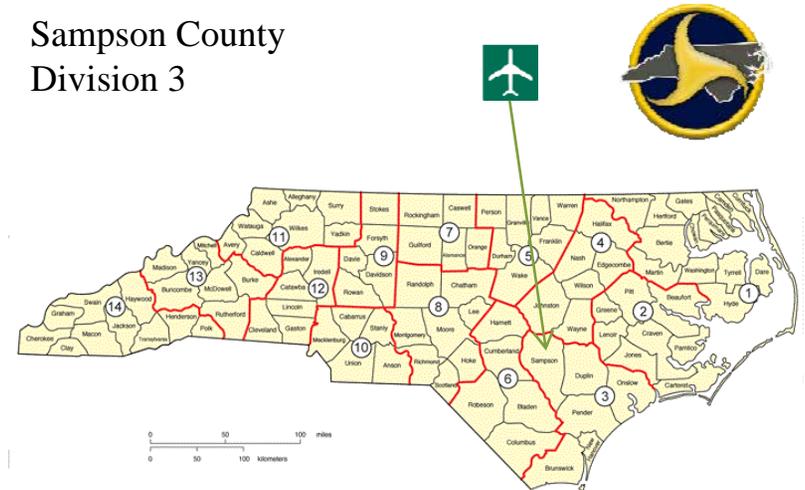


Clinton-Sampson County Airport - Runway Maintenance



- Cost of the project was \$120,000 at 100% state funding.

Sampson County
Division 3



- Project was completed on schedule and included pavement crack seal, rejuvenation, and markings.
- Important safety improvement to assist pilots with visual landings.



Clinton-Sampson County Airport - Runway Maintenance - Before



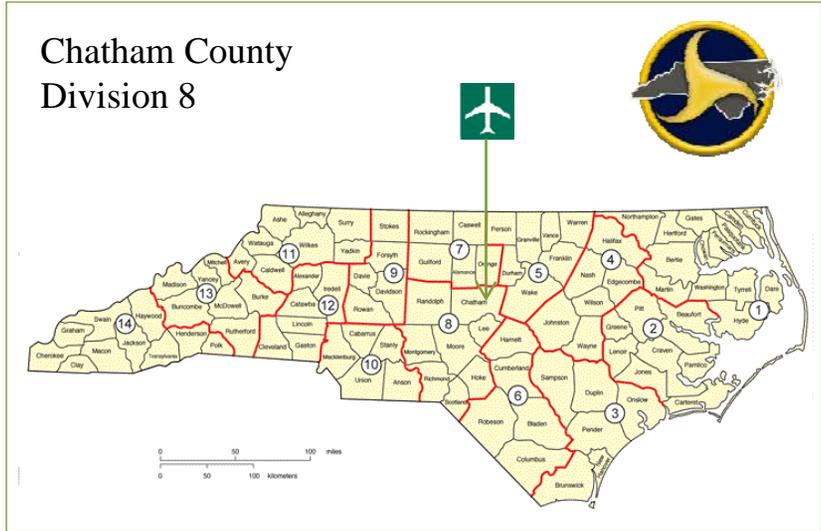
Clinton-Sampson County Airport - Runway Maintenance - After



Siler City Airport - Runway and Apron Reconstruction



- Cost of this project was \$2.73M, 90% state funding, with a 10% local match.
- The Division of Aviation biennial pavement condition report listed the runway and apron in “poor” condition in 2014.



- Full-depth reclamation (FDR) was performed and all areas were repaved.
- FDR is a process that rebuilds worn out asphalt pavements by recycling. The existing pavement and sublayers are pulverized and blended together to form the new base layer.



*Siler City Airport -
Runway and Apron Reconstruction - Apron before*



*Siler City Airport -
Runway and Apron Reconstruction - Runway before*



Siler City Airport - Runway and Apron Reconstruction - Apron After



*Siler City Airport -
Runway and Apron Reconstruction - Runway After*



Concord Regional Airport- South Terminal Apron Construction



Concord Regional, received \$4.5M in funding from FAA for the new construction of a new south terminal apron.

Cabarrus County
Division 10



- Project will provide additional parking for the airport's busiest days.
- Concord converted from General Aviation to Commercial Service in 2012.



Concord South Terminal Apron Construction- Before



Concord South Terminal Apron Construction- During



Concord South Terminal Apron Construction- After



Charlotte Monroe Regional Airport Extended Runway Safety Area and Glide Slope



Charlotte Monroe Regional, received \$1.7M in funding from FAA for the new construction of an extended runway safety area and \$2.8M from FAA for the Glide Slope construction.

Union County
Division 10



- Project will provide additional safety for pilots who use this Charlotte-Douglas reliever airport.



Charlotte Monroe Runway Safety Area- Before



Charlotte Monroe Runway Safety Area- After



Charlotte Monroe Glide Slope- Before



Charlotte Monroe Glide Slope- After



Lumberton Airport- Taxiway/Apron Rehabilitation



The state provided over \$2.4M in funding for this project.

Total cost was \$2.56M

Robeson County
Division 6



- Brought taxiway and apron up to same weight service capability as recently extended and reinforced runway.
- Brought fuel parking area into compliance with EPA requirements.



Lumberton Taxiway- Before



Lumberton Taxiway- After



Curtis L. Brown, Jr. Field - Comprehensive Pavement Preservation



- Cost of this project was \$200,000 at 100% state funding.

Bladen County
Division 6



- Included runway, taxiway, and apron pavement and extended the life of the pavement by an additional 5 years.
- Work included crack seal, rejuvenation, and remarking pavement.



Curtis L. Brown, Jr. Field - Comprehensive Pavement Preservation



Thank you



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

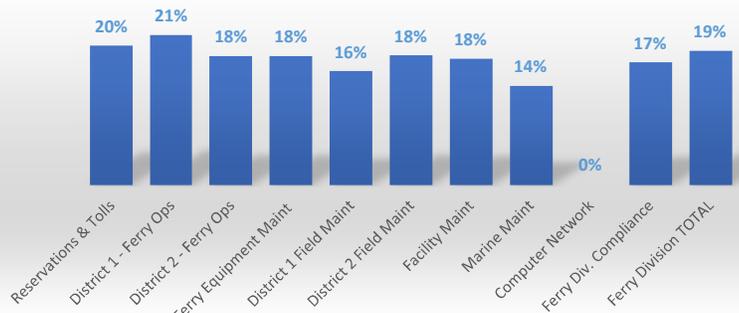
Ridership (Vehicles)

Ferry Routes	CY16 AUG	CY15 AUG	DELTA	FY17 YTD	FY16 YTD	DELTA
Currituck - Knotts Island	2,037	2,447	-16.8%	4,214	4,758	-11.4%
Hatteras - South Dock	38,276	38,848	-1.5%	79,406	79,753	-0.4%
Swan Quarter - Ocracoke	4,081	4,367	-6.5%	8,796	9,295	-5.4%
Cedar Island - Ocracoke	6,312	6,067	4.0%	13,328	13,459	-1.0%
Aurora - Bayview	4,509	4,672	-3.5%	9,089	9,485	-4.2%
Cherry Branch - Minnesott	19,671	19,735	-0.3%	41,345	41,811	-1.1%
South Port - Fort Fisher	24,274	24,561	-1.2%	51,202	51,938	-1.4%
Emergency Ferry Rt.	N/A	N/A	N/A	N/A	N/A	N/A
Monthly Total	99,160	100,697	-1.5%	207,380	210,499	-1.5%

Budget (Operations & Maintenance)

Departments	FY2017 Spending Plan	FY17 Expenditures through AUG 2016
Reservations & Tolls	\$ 556,074.00	\$ 108,776.87
District 1 - Ferry Ops	\$ 11,003,525.00	\$ 2,310,300.67
District 2 - Ferry Ops	\$ 8,620,577.00	\$ 1,558,052.64
Ferry Equipment Maint	\$ 13,197,949.00	\$ 2,384,865.43
District 1 Field Maint	\$ 577,591.00	\$ 91,904.49
District 2 Field Maint	\$ 482,633.00	\$ 87,757.39
Facility Maint	\$ 483,820.00	\$ 85,769.20
Marine Maint	\$ 1,191,090.00	\$ 165,205.83
Computer Network	\$ 3,728.00	\$ -
Ferry Div. Compliance	\$ 1,574,786.00	\$ 270,299.79
Ferry Division TOTAL	\$ 37,691,773.00	\$ 7,062,932.31

Percent of Planned Budget Spent



Status of Capital Reserves Funds

Routes	WBS	WBS Balance as of	AUG 2016
FER Shipyard Capital Reserve	16SP.43	\$	1,388,217.06
FER Sys Cptl All Routes	16SP.501.1	\$	562,483.00
FER D1 Currituck-Knotts Island Cap Reserve	16SP.511.1	\$	23,458.22
FER D1 Hatteras Inlet Cap Reserve	16SP.512.1	\$	158,652.98
FER D1 Swan Quarter - Ocracoke Island Cap Reserve	16SP.513.1	\$	1,289,269.68
FER D1 Ocracoke Island of OI-Cedar Island Cap Reserve	16SP.514.1	\$	1,199,328.55
FER D2 Pamlico River Route Cap Reserve	16SP.521.1	\$	26,292.79
FER D2 Cherry Branch - Minnesott Beach Cap Reserve	16SP.522.1	\$	132,257.17
FER D2 Cedar Island of OI - Cedar Island Cap Reserve	16SP.523.1	\$	1,199,356.71
FER D2 South Port - Fort Fisher Cap Reserve	16SP.531.1	\$	2,619,786.02
Total		\$	8,599,102.18

Updates or Comments

1. RK&K, under statewide contract, have been selected to provide a Project Manager to oversee consultant firms required, relative to pedestrian ferry as well as the expansion of NC State Shipyard.
2. Swan Quarter OPS building replacement 90% complete. We anticipate a completion date of October 15th 2016.
3. Cherry Branch OPS building is now 35% complete. We anticipate a completion date of January 2017.
4. We will resume our winter schedules on all routes by the end of October.



PIEDMONT & CAROLINIAN PERFORMANCE SNAPSHOT

NCDOT RAIL DIVISION **for the Month of JULY 2016**

Ridership

	FFY16 JULY	FFY15 JULY	Δ	FFY16 YTD	FFY15 YTD	Δ
Carolinian	28,854	29,357	-2%	238,930	249,421	-4%
Piedmont	12,809	14,270	-10%	127,816	136,242	-6%
Total	41,663	43,627	-5%	366,746	385,663	-5%

Number of Trains

Average Number of Passengers per Train

FFY16 JULY	FFY15 JULY	Service	FFY16 JULY	FFY15 JULY	Δ
62	62	Carolinian	465	474	-2%
124	122	Piedmont	103	117	-12%

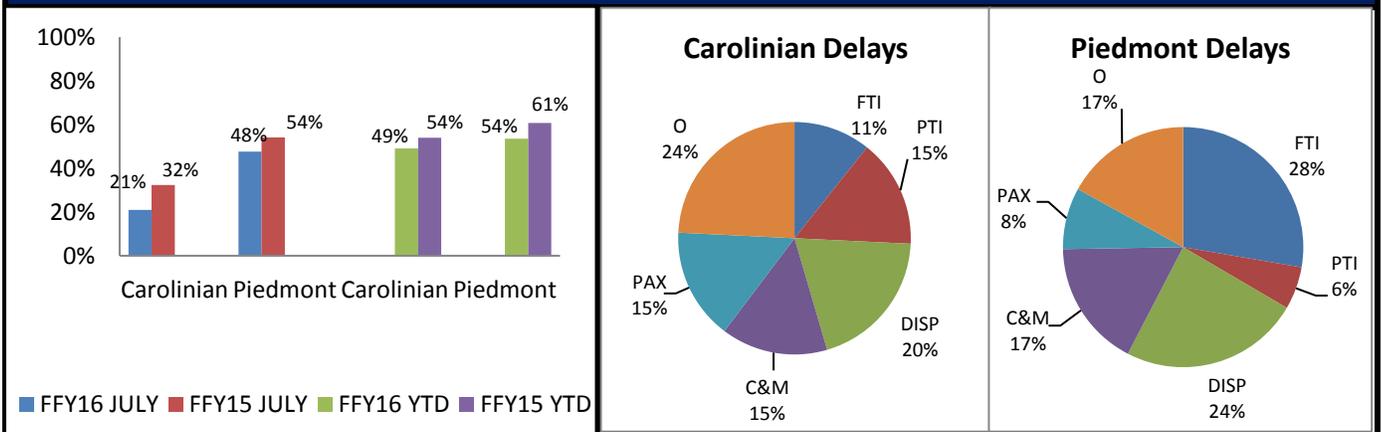
Revenue

	FFY16 JULY	FFY15 JULY	Δ	FFY16 YTD	FFY15 YTD	Δ
Carolinian	\$2,008,241	\$2,072,062	-3%	\$15,037,178	\$15,998,676	-6%
Piedmont	\$261,292	\$278,597	-6%	\$2,701,046	\$2,788,956	-3%
Total	\$2,269,533	\$2,350,659	-3%	\$17,738,224	\$18,787,632	-6%

Amenities & Vending	Mo. Surcharge + Vending Income	\$20,185	Mo. Expense	\$4,037	Mo. Surplus	\$16,148
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July 2016 service modifications and annulments impacted two Carolinian trains. On July 13, Carolinian trains operated between Charlotte and Raleigh only to accommodate CSX track work north of Selma on A Line. Additional disruptions for PIP project work will continue to occur as necessary through completion of the project. Average gasoline prices were \$0.47/gallon lower in July 2016 than in July 2015 (EIA Weekly Retail Gasoline for Lower Atlantic region).

On-time Performance



*Carolinian and Piedmont delays were 8,935 and 4,713 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 JUNE	FFY15 YEAR-END	Δ
Carolinian	73%	75%	-2%
Piedmont	90%	90%	0%

*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 June eCSI for all Amtrak services was 82%.

North Carolina City Pairs with Largest Ridership

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

*Of the ten city pairs with the highest ridership, from the previous FFY month Durham - Washington had the largest increase of 24% and New York - Raleigh the largest decrease of 13% for the Carolinian; Charlotte - Cary had the largest increase of 3% and Cary - Durham the largest decrease of 32% for the Piedmont.

Carolinian and Piedmont Total Ons-Offs at North Carolina Stations

	FFY16 JULY	FFY15 JULY	Δ
Charlotte	14,065	15,104	-7%
Raleigh	10,339	11,191	-8%
Greensboro	7,960	8,957	-11%
Durham	6,471	7,006	-8%
Cary	5,370	5,727	-6%
Wilson	3,163	3,209	-1%
High Point	2,639	2,684	-2%
Rocky Mount	2,006	1,952	3%
Burlington	1,982	2,255	-12%
Kannapolis	1,769	1,609	10%
Salisbury	1,721	1,929	-11%
Selma-Smithfield	855	792	8%

*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 JULY	FFY16 YTD
Train Host Volunteer Hours	1,016	10,555

Go. Reconnect.





Public Transportation Division

Partnerships for Success

Over 140 transit operators from throughout NC joined PTD at the Embassy Suites in downtown Winston-Salem on September 13, 2016.

Attendees heard 5 engaging training sessions that targeted important topics for North Carolina and highlighted the importance of forming new partnerships to better serve our citizens. The topics are: Non Emergency Medical Transportation, Disadvantaged Business Enterprise, First Quarter Success Plans, Budgeting 101 and Rural Health. The presentations and handouts can be found on our website.

Awards

The 2nd Annual Performance Awards were given by Mr. Weatherly, Deputy Secretary for Transit. The Community Transportation winners by peer group are: Mecklenburg (#1), Gaston (#2), Person (#3), Hoke (4), and Mitchell (#5). Urban peer group winners are: Chapel Hill Transit and Salisbury Transit System.



Innovate! is the new program in the PTD Innovation Office announced during the meeting. A committee will accept nominations this spring for our first award winners!



At the same time, current innovators were asked to stand and be recognized. County of Lee Transit for implementing structured scheduling and serving the medical needs of new populations; Carteret County Transportation System for adjusting scheduling rules and yielding a 10% increase in passenger trips for FY16 while traveling 10,000 less miles. Alamance County Transportation Authority for implementing structured scheduling in FY 17. Other successes with new technology are: propane conversions, Southwest One Click One Call / RidgeRunner and 2 regional software implementations. Great work everyone!!

Public Transportation Retirees Recognized

During the last six months, 2 transit managers retired. They were recognized by their years of service.

- 30 years of service - Kathi Little-John, Eastern Band of Cherokee Indians
- 19.5 years of service – Rebecca Clayton, Pitt Area Transit System



PTD Activities Underway

September 2016 Activities

Training:

- Partnerships for Success
- Lean Six Sigma – Yellow Belt
- Excel
- Legacy Leadership
- Transportation Leadership Development
- Paratransit Fundamentals
- 5307 Training

Meetings Attended:

- GREAT Team meetings
- Growing Better Together: Rural Health and Economic Development
- FTA Bi-monthly meeting

Upcoming:

- TRB Paratransit and Intercity Bus Conference – Asheville Oct. 2-5
- Staff retreat

PTD Success Plan Posted

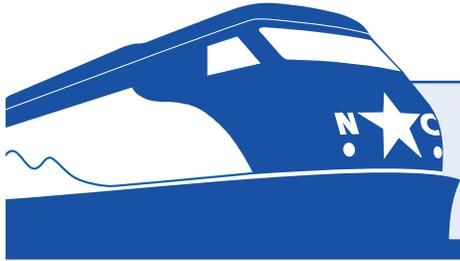
The Plan is available [here online](#) under the Transit Providers tab.

What's New?

- The **FTA/NCDOT Bi-Annual Meeting** was held in Raleigh on August 31, 2016. Dr. Yvette Taylor, FTA Region IV Administrator, and Robert Buckley, NC's Community Planner joined PTD in project and program updates. Mr. Buckley also trained staff and new 5307 recipients on the 5307 small and large urban program differences.
- North Carolina transit systems were awarded FY 2016 FTA discretionary funding in two recent announcements:
 - 5339 (b) Bus and Bus Facility – the Greensboro Transit Authority will receive \$960,000 to renovate its ticketing, call center, and waiting areas in the J. Douglas Gaylon Bus Depot.
 - Rides to Wellness Demonstration and Innovative Coordinated Access and Mobility Grants – GoTriangle will receive \$65,600 to expand the GoTriangle Regional Call Center to improve coordinated transit planning and application assistance for paratransit riders who are low-income, uninsured or have mental health special needs. By co-locating paratransit mobility management services with fixed route mobility management services, the project will increase access to care. The project builds on a 2015 FTA-funded Healthcare Access Challenge Grant that tested solutions for transportation for low income, uninsured, or Medicaid consumers of behavior healthcare and developed a plan to implement solutions.
- The requests for proposals for **PTD's Strategic Plan** were received in mid-September. Secretary Tennyson has invited individuals to serve on the Executive Committee, one of two committees guiding this study.

PTD Welcomes New Employees

- PTD is excited to announce three new employees who are joining us as Mobility Development Specialists. Jennifer Baptiste joins us from the Gates County Planning Department and has experience as a Regional Mobility Manager. Bonetta Rogers brings planning, project management and audit experience to her new role. And, Blair Chambers has served as a planner in state and local governments.



@NC_By_Train
ncbytrain.org

NCDOT Rail Division

The Rail Report



October 2016

Rail Projects to be Included in Next State Transportation Plan

On August 24, NCDOT released the scores for projects evaluated at the Regional Impact funding tier for the Draft 2018-2027 State Transportation Improvement Program (STIP). The STIP identifies funding and scheduling for transportation projects over a ten-year horizon and is updated every two years. Data-driven criteria such as congestion mitigation, benefit/cost, safety, and economics are combined with local input to determine which projects will be selected for funding.

"A strong transportation network is the backbone of the state's economy," Governor Pat McCrory said. "We took the politics out of transportation planning to ensure roads and other important infrastructure are prioritized based on need. These projects demonstrate the process is working as intended to make smart decisions that keep North Carolina moving."

Projects for Rail include the following:

- **Improving the state's freight rail network and reducing train delays:**
 - the extension of a siding in Jamestown, Guilford County
 - a new lead track for Kimberly Clark in Lexington
 - a new third track to enter Pomona Yard in Greensboro
 - a new track and structures in uptown Charlotte to move passenger trains off the Norfolk Southern main line
 - a half-mile connector track in Charlotte that will complete a wye to turn trains
- **Grade separation projects to improve the safety of NC's rail network by reducing the possibility of train and vehicle collisions, while reducing traffic delays caused by trains:**
 - New Hope Church Road and Durant Road in Raleigh
 - Ellis Road and Cornwallis Road in Durham
 - Northeast Maynard Road and Harrison Avenue in Cary
 - Franklin Boulevard in Greensboro
 - a new location in North Kannapolis/Landis
- **Purchasing five new bi-level passenger cars to improve capacity and ease of passenger loading on the Piedmont service between Raleigh and Charlotte.**

Following the scoring of projects at the Statewide and Regional tiers, the final 30% of available funding will be allocated to projects at the Division Needs tier by weighing local input and data equally. The complete draft of the 2018-2027 STIP is then expected to be released for public comment in January 2017.

Rail Projects

3
Statewide Tier
\$122 M

15
Regional Tier
\$233.9 M

Fall is just around the corner and so is the North Carolina State Fair.



For 21 years, NC By Train and Amtrak have provided a special stop at the State Fair. Fairgoers can take the Carolinian, which will make two stops daily beginning October 14 and continuing through October 23, and arrive across the street from the fair. Tickets are now available via the website below. Enter station code NSF for this special stop.

Visit www.ncbytrain.org for more information. Some restrictions may apply.



The Kinston & Snow Hill Railroad is now serving the Global TransPark

Gulf & Ohio Railways (G&O) announced that a new short line railroad, the Kinston & Snow Hill Railroad (KSH), has been added to the G&O family of companies. The Kinston & Snow Hill Railroad pays homage to the short line railroad that operated from 1903-1913 on the same line. The railroad is located on a 5.7 mile industrial park spur that is owned by NCDOT and serves the NC Global TransPark in Kinston. The KSH is able to provide service to the national rail network system with an interchange point with Norfolk Southern in Kinston.

"We look forward to exploring the opportunities that we see this rail line offering," said Peter Claussen, Vice Chairman of G&O. "It is truly a unique piece of property and presents a lot of growth potential." The G&O also operates two other short line railroads in North Carolina, the Laurinburg and Southern and the Yadkin Valley Railroad.



Out and About with NC BY TRAIN



Bob Kane represents NC BY TRAIN at the Queen City Battle of the Bands in Charlotte



Alison Boswell shares info and schedules with students at Johnson C. Smith University

Ride the Train to 2016 Fall Events



October 1

Selma

ma-nc.com/railroad-days-festival



October 7 & 8

Rocky Mount

bbqthrowdown.net



NCSTATEFAIR.ORG

October 13-23—Special Stop

Raleigh

ncstatefair.org



October 22—Special Stop

Lexington

barbecuefestival.com



October 29

Hamlet

hamletnc.us/seaboard.html



November 5 & 6

Wilson

whirligigfestivalnc.org

Train Service for Select Carolinas Panthers Games

Passengers headed to 1 p.m. Sunday games on Nov. 13, Dec. 11 or Dec. 24 can take Piedmont Train 73 from Raleigh at 6:45 a.m. or board at one of the other seven stations along the way and return on Piedmont Train 76 at 5:15 p.m.

The Charlotte Area Transit System is picking up passengers at the Charlotte station and dropping them off a few blocks from Bank of America Stadium. ([View a map.](#)) The fare is \$2.20 for one-way service and \$4.40 for round-trip service.

**For info and to purchase tickets:
www.ncbytrain.org**

Rail Division Retirement

Kirby Warrick, Project Manager in the Surfaces & Encroachments Unit, retired on August 31 after more than 29 years with the State of North Carolina. Kirby began his career with NCDOT in the Right of Way Unit before moving to a position in the Utilities Division. Kirby has been with the Rail Division for the past seven years. Throughout he has been an instrumental part of railroad coordination on both TIP projects and Rail Division led projects. He has been a valuable resource for many right of way questions and research for all of NCDOT over the years and he will be missed. We wish him the best in his retirement.

NCDOT Makes Improvements in Clarkton



Improvements to US 701 Business Crossing

The NCDOT Rail Division recently worked with Division 6 staff to let a contract for roadway improvements to North Railroad Street, South Railroad Street, and the U.S. 701 Business railroad crossing in the Town of Clarkton. These improvements were made in conjunction with the closure of the Elm Street at-grade crossing on the CSXT rail line. The town approved the project in June 2015 and Freight Rail and Rail Crossing Safety Improvement (FRRCSI) funded the \$200,000 project.

The project, which included the closure of Elm Street, also involved the following improvements: paving of a portion of North Railroad Street from U.S. 701 to Elm Street; resurfacing North Railroad Street from Elm Street to U.S. 701 Business; resurfacing South Railroad Street from the Clarkton Rescue Services Building to Clark Street; and an improved U.S. 701 Business crossing.



South Railroad Street resurfaced.

Ridership & Revenue on NC's Amtrak Service – *July 2016 vs. 2015

	RIDERSHIP			REVENUE		
	2016	2015	% +/-	2016	2015	% +/-
Piedmont	12,809	14,270	-10%	\$261,292	\$278,597	-6%
Carolinian	28,854	29,357	-2%	\$2,008,241	\$2,072,062	-3%

1,016

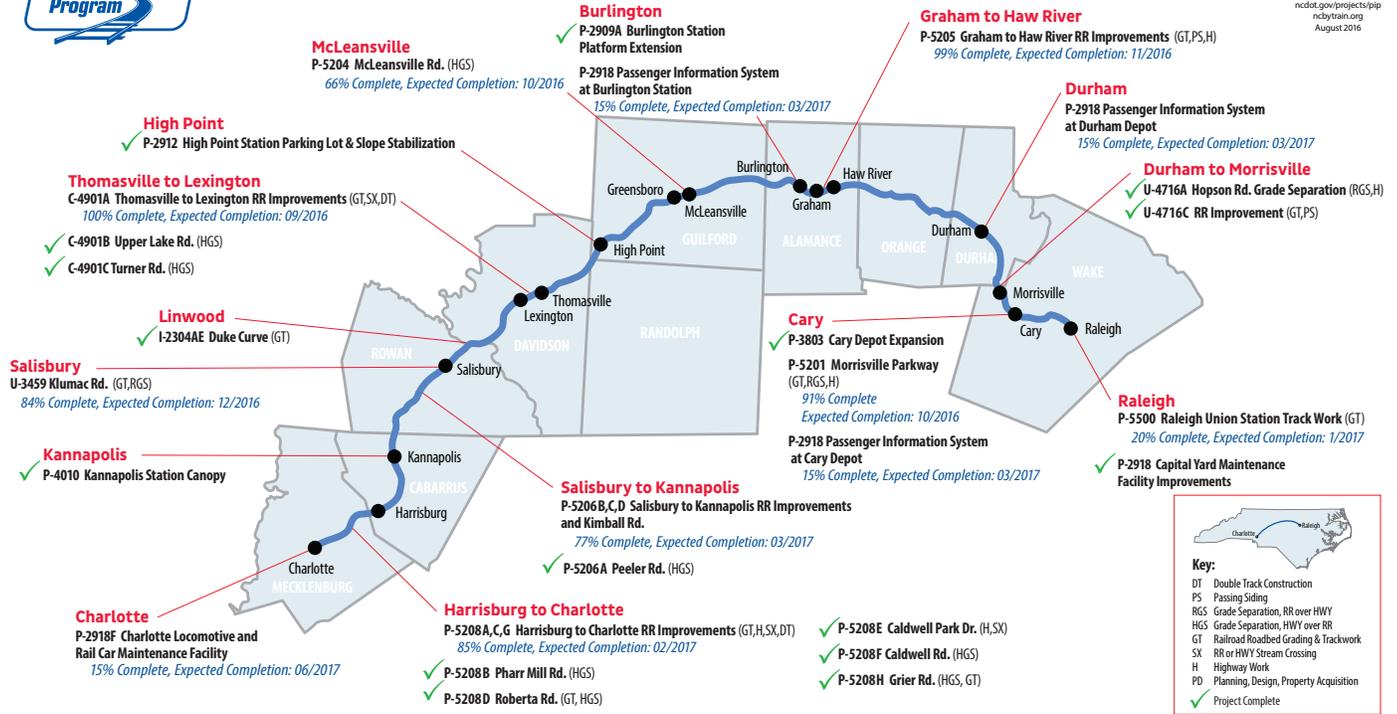
Hours Volunteered by N.C. Train Hosts in June, supporting NC ByTrain onboard and at events.



July 2016 service modifications and annulments impacted two Carolinian trains. On July 13, Carolinian trains operated between Charlotte and Raleigh only to accommodate CSX track work north of Selma on the A Line. Additional disruptions for Piedmont Improvement Program project work will continue to occur as necessary through completion of the project. Average gasoline prices were \$0.47/gallon lower in July 2016 than in July 2015 (EIA Weekly Retail Gasoline for Lower Atlantic region).



Piedmont Improvement Program – August 2016 Status Report



Note: % is NCDOT Contract Completion percentage

2 Locomotives 40% Complete Expected Completion Date: 11 & 12/2016

NC By Train – Piedmont Equipment ✓ 5 Locomotives ✓ 11 Railcars

2 Cab Control Units 70% Complete Expected Completion Date: 10 & 12/2016
2 Additional Cab Control Units from non-ARRA funding*

PIP Milestones

Harrisburg - The Roberta Road extension and grade separation (*below*) was opened to traffic on August 8, and the adjacent Robinson Church Road crossing was closed, improving safety and mobility in the Town of Harrisburg. Secretary Nick Tennyson, state and local officials and local veterans participated in a ribbon cutting event on August 18 commemorating the roadway opening.



McLeansville - The McLeansville grade separation was opened to traffic on August 12. Remaining roadway work and associated crossing closures are anticipated to be complete in October.

China Grove - A 2.5-mile track cut-in of the new Main 1 track through China Grove and on the new bridge over Kimball Road was completed in August. The completion of this track allows for the completion of the second track and of Kimball Road extension.



Morrisville - Secretary Nick Tennyson, along with state and local officials, held a ribbon cutting ceremony for the Morrisville Parkway grade separation project (*above*). The bridge opened to traffic on August 27. Late phase grading to remove the old railroad roadbed is expected to be complete by the end of October.

Spent to Date of \$520M (eff. 8/31/2016)

Component	Expenditure
PD&A/ROW	\$ 53,274,450
Equipment Procurement & Rebuild	\$31,002,586
Stations & Facilities	\$46,212,410
Track & Structures	\$294,709,204
CRISP	\$2,180,376
Program Totals	\$427,379,026
Two new contracts totaling \$23,331 were awarded in August.	

Piedmont Improvement Program – Project Photos – August 2016



P-5500 Raleigh Union Station construction



P-5201 Morrisville Parkway, open to traffic



P-5205 Graham to Haw River Passing Siding construction



P-5204 McLeansville Road, open to traffic



C-4901 Bowers to Lake, track construction

Piedmont Improvement Program – Project Photos – August 2016



U-3459 Klumac Road, roadway paving



P-5206 Reid to North Kannapolis, track construction Thom Street



P-5206 Reid to North Kannapolis, track on bridge over Kimball Road



P-5208 Haydock to Junker, Roberta Road open to construction



P-5208 Haydock to Junker, track construction



P-5208 Haydock to Junker, Coddle Creek bridge construction



ROAD/BRIDGE/FERRY NAMING COMMITTEE AGENDA

BOARD OF TRANSPORTATION OCTOBER 5, 2016

TIME: 2:45 PM

LOCATION: 160

TOPIC	PRESENTER	TIME
Policy Update	Leigh Wing	15 min
Other Business	Leigh Wing	15 min