



Durham - Chapel Hill - Carrboro  
Metropolitan Planning Organization Board  
**Released for Public Comment: November 12, 2014**

**Submit comments to: [Lindsay.Smart@durhamnc.gov](mailto:Lindsay.Smart@durhamnc.gov) by  
December 5, 2014**

**DRAFT FY 2012-2018 TIP Amendment #22 Summary Sheet**

- **Town of Chapel Hill (TIP Project # U-5550 Fordham Blvd/Ephesus Church Rd Intersection):** Adding a new project to the 2012-2018 TIP with NHP funds. Project added to schedule in STI Statewide Mobility Funds per prioritization to reflect reimbursement for proposed accelerated delivery by Town of Chapel Hill.

Project description: The eastern leg of the intersection (Ephesus Church Road) will be realigned to intersect Fordham Boulevard (US 15-501) at closer to 90 degrees. This realignment enables construction of dual exclusive westbound left turn lanes, thereby eliminating the current inefficient split phased signal operation and allowing eastbound and westbound left turn to occur concurrently. A monolithic concrete island will also be constructed on the eastern leg between eastbound and westbound travel lanes, preventing left turns in close proximity to the intersection.

From a pedestrian and bicycle perspective, the project includes sidewalk connections and crosswalks on all four approaches with pedestrian activated heads. Widening on the eastern leg of Ephesus Church Road will accommodate future bike lanes, with bicycle activated loop detectors.

- **NCDOT (STIP Project #: M-0479 Statewide Project Development & Env. Analysis):** Project added the STIP. Information from NCDOT Item N Handout: "NEW STIP project #: M-0479. STATEWIDE PROJECT DEVELOPMENT AND ENVIRONMENTAL ANALYSIS, PRELIMINARY ENGINEERING FOR MISCELLANEOUS PROJECTS. ADD PRELIMINARY ENGINEERING IN FY 15 NOT PREVIOUSLY PROGRAMMED."
- **NCDOT (STIP Project #: E-5502 Bennett Memorial Road and Bennett Place):** Project schedule updated in the STIP. Information from NCDOT Item N Handout: "DELAY CONSTRUCTION FROM FY 13 TO FY 15. PENDING DEPARTMENT OF CULTURAL RESOURCES SECURING NON-FEDERAL MATCH."
- **NCDOT (STIP Project #: C-5552 Various Rail Fourth Daily Frequency Between Raleigh and Charlotte):** Project deleted from the STIP. Information from NCDOT Item N Handout: "DELETE, WORK TO BE ACCOMPLISHED UNDER PROJECT P-2918."

# TIP AMENDMENT SUMMARY SHEET: Adding/creating a new project

## Project Details

Date:  Jurisdiction/Agency:

Amendment Requested By:  Grantor Grant #

Project Name:  MUNIS Grant #

Project Description/Details:

Project Type: (select all that apply)

<input type="checkbox"/> capital	<input type="checkbox"/> planning	<input checked="" type="checkbox"/> design/PE	<input checked="" type="checkbox"/> right-of-way	<input checked="" type="checkbox"/> construction
<input type="checkbox"/> Transit	<input checked="" type="checkbox"/> sidewalks	<input type="checkbox"/> trails	<input checked="" type="checkbox"/> bike lanes	<input type="checkbox"/> resurfacing
<input type="checkbox"/> signalization	<input checked="" type="checkbox"/> intersection	<input type="checkbox"/> ITS	<input type="checkbox"/> safety	<input type="checkbox"/> new road
<input checked="" type="checkbox"/> turn lanes	<input type="checkbox"/> operating	<input type="checkbox"/> administration	<input type="checkbox"/> other	

## Project Funding Summary Table: please enter the anticipated funding schedule

FY	Work/Phase	Funding Type	Federal Share	State Share	Local Share	Total
2018	ROW / Construction	NHP	1,736,000	434,000		2,170,000
<b>Funding Totals:</b>			<b>1,736,000</b>	<b>434,000</b>		<b>2,170,000</b>

Please provide additional information or full project description if necessary:

**Total Project Cost**

Adding a new project (U-5550) "US 15/501 Fordham Blvd & SR 1742 Ephesus Church Rd Intersection Improvements" to the 2012-2018 TIP with NHP funds. Project added to schedule in STI Statewide Mobility Funds per prioritization to reflect reimbursement for proposed accelerated delivery by Town of Chapel Hill. This funding can be used for construction and ROW costs. PE will be performed and funded by the Town of Chapel Hill in advance of the ROW and construction phases.

Project description: The eastern leg of the intersection (Ephesus Church Road) will be realigned to intersect Fordham Boulevard (US 15-501) at closer to 90 degrees. This realignment enables construction of dual exclusive westbound left turn lanes, thereby eliminating the current inefficient split phased signal operation and allowing eastbound and westbound left turn to occur concurrently. A monolithic concrete island will also be constructed on the eastern leg between eastbound and westbound travel lanes, preventing left turns in close proximity to the intersection. Service Road connections to the western leg of Ephesus Church Road will be either eliminated or restricted to right turns only as a means of reducing friction and increasing intersection efficiency.

The southbound left turn lane on Fordham Boulevard at Ephesus Church Road will be widened to an 11' lane and extended to provide approximately 300 feet of storage with an appropriate taper. Medians within Fordham Boulevard will be modified to better accommodate truck turning movements through the intersection. To realize greater intersection capacity and provide a longer weaving area, northbound Fordham Boulevard will be remarked to provide 2 through lanes for approximately 750 feet north of Ephesus Church Road before tapering to one lane. This is an increase of approximately 300 feet over current conditions. The median cross over between northbound and southbound Fordham Boulevard (approximately 515 feet north of Ephesus Church Road) will be eliminated.

From a pedestrian and bicycle perspective, the project includes sidewalk connections and crosswalks on all four approaches with pedestrian activated heads. Widening on the eastern leg of Ephesus Church Road will accommodate future bike lanes, with bicycle activated loop detectors.

Additional information: This would be an exempt project - 40 CFR 93.127 per the conformity regulations. No regional emissions analysis is required but project level hotspot analysis by NCDOT Division 7 applies.

## Smart, Lindsay

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**From:** Lakata, Richard J <rjlakata@ncdot.gov>  
**Sent:** Wednesday, October 15, 2014 2:54 PM  
**To:** Lewis, Ed F; Wasserman, David S  
**Cc:** Patel, Alpesh G; Smart, Lindsay; Bollinger, Julie B; Stanley, Mike  
**Subject:** RE: Proposed STI project U-5550 in Chapel Hill: US-15/501 at SR 1742 (Ephesus Church Rd) - intersection improvements

**Follow Up Flag:** Follow up  
**Flag Status:** Flagged

Ed,

I've included David Wasserman here in case he needs to clarify/revise my own understanding that the estimate was generated via formula / std. procedure used by the NCDOT Prioritization Office under P3.0, and that it is NOT a 'Verified' cost estimate.

In case you don't have a copy, here's how the costs were listed from a recent Excel file of P3.0 results:

Construction Cost	Right-Of-Way Cost	Utilities Cost	Actual Project Cost	Other Funds	Cost to NCDOT	Amount Programmed (16-25)	Funding Category	R
\$ 563,000	\$ 135,000	\$ -	\$ 698,000		\$ 698,000		STATEWIDE MOBILITY	
\$ 7,875,000	\$ 125,000				\$ 8,000,000	\$ 8,000,000	DIVISION	
\$ 469,406	\$ -		\$ 558,110	\$ 111,622	\$ 446,488	\$ 558,000	DIVISION	
\$ 2,052,000	\$ -	\$ -	\$ 2,052,000		\$ 2,052,000		STATEWIDE MOBILITY	
\$ 1,750,000	\$ 420,000	\$ -	\$ 2,170,000		\$ 2,170,000		STATEWIDE MOBILITY	

--Rick

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**From:** Lewis, Ed F  
**Sent:** Wednesday, October 15, 2014 2:33 PM  
**To:** Lakata, Richard J  
**Cc:** Smart, Lindsay; Bollinger, Julie B; Stanley, Mike; Mcintyre, Ray; Patel, Alpesh G; Short, Charles S  
**Subject:** RE: Proposed STI project U-5550 in Chapel Hill: US-15/501 at SR 1742 (Ephesus Church Rd) - intersection improvements

Most likely YES. It's also possible that PE and RW will be entirely Town funded. Nonetheless, although the \$2.17m will initially be shown in the existing ("Current") FY12-18 STIP as all CON \$, the funds can be used for RW as well. At this point, we simply want it on the programming "radar screen", . . . and, with help from Div-7, DCHC, and the Town, we'll work out the Cost/Funding/Phase distribution later.

**Will this get worked out in the municipal agreement with the city?**

YES. The key is: \$2.17m Max. reimb. from NCDOT to the Town; any cost over that is 100% local. The schedule will also be addressed . . . meaning the Town might start the project fairly soon and entirely on their own nickel, but the parties would agree that NCDOT would reimburse up to \$2.17m later in time.

**Will we show the city money in Item N?**

As I understand it, . . . NO, not as we first add it to the STIP. The Town must not assume, however, that there will be no costs to them due to the uncertainty of the present cost estimate.

Hope that helps. Let me know if you'd like me to dig a little deeper with any of the above.

--Rick



**Richard J. Lakata, P.E.**  
Senior Program Development Engineer  
Program Development Branch STIP Unit, Central Region  
NCDOT Mail Service 1534 Raleigh, NC 27699-1534  
[rjlakata@ncdot.gov](mailto:rjlakata@ncdot.gov)  
919.707.4629 direct  
919.733.3585 fax

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**From:** Lewis, Ed F  
**Sent:** Wednesday, October 15, 2014 9:00 AM  
**To:** Lakata, Richard J; Smart, Lindsay; Bollinger, Julie B  
**Cc:** Stanley, Mike; Short, Charles S; Patel, Alpesh G  
**Subject:** RE: match requirement for NHP/NHPP funds  
**Importance:** High

Gentlemen,

So what is the total cost for the project? Is it all federal and state money (80/20)? Is the city kicking in money for PE and RW? Will this get worked out in the municipal agreement with the city. Will we show the city money in Item N?

I have contacted Greg Smith's group regarding Hot Spot analysis.

Our attempt is to work this through the MPO process at the same time as the NCDOT process to be efficient as possible.

Thanks and let us know if we need to provide any information from our end.

Thanks,  
Ed

=====  
*Ed Lewis*  
NCDOT Division 7 Planning Engineer  
Phone – (336) 487-0000  
Fax – (336) 334-3637

Mailing Address: :

## Smart, Lindsay

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**From:** Lewis, Ed F <elewis@ncdot.gov>  
**Sent:** Wednesday, October 22, 2014 8:57 AM  
**To:** Bollinger, Julie B; Smart, Lindsay; David Bonk  
**Subject:** Fwd: U-5550; Ephesus Church/US 15-501  
**Attachments:** image001.png

FYI. Waiting to hear back on qualitative analysis.

Ed Lewis  
Division 7 Planning Engineer  
Sent from my iPhone

Begin forwarded message:

**From:** "Dunn, Bobby" <[bbdunn@ncdot.gov](mailto:bbdunn@ncdot.gov)>  
**Date:** October 21, 2014, 1:06:59 PM EDT  
**To:** "Lewis, Ed F" <[elewis@ncdot.gov](mailto:elewis@ncdot.gov)>  
**Cc:** "Smith, Gregory A" <[gasmith@ncdot.gov](mailto:gasmith@ncdot.gov)>  
**Subject:** RE:U-5550; Ephesus Church/US 15-501

U-5550 is an air quality neutral project, in accordance with 40 CFR 93.126. It is not required to be included in the regional emissions analysis (if applicable) and a project level CO hot-spot analysis is not required.

The project is located in Orange County, which has been determined to comply with the National Ambient Air Quality Standards. The proposed project is located in an attainment area; therefore, 40 CFR Parts 51 and 93 are not applicable.

Although this project does not require a quantitative CO hot-spot analysis, it does require a qualitative analysis to include Interim Guidance Update on Mobile Source Air Toxics (MSAT).  
If you have any questions, please contact me at [bbdunn@ncdot.gov](mailto:bbdunn@ncdot.gov) or 919-707-6064.

Thank you  
Bobby Dunn

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**From:** Lewis, Ed F  
**Sent:** Wednesday, October 15, 2014 8:04 AM  
**To:** Smith, Gregory A; Dunn, Bobby  
**Cc:** Bollinger, Julie B  
**Subject:** FW: Ephesus Church/US 15-501  
**Importance:** High

Good morning gentlemen.

See below. What do you all need form me to perform hotspot analysis?

# TIP AMENDMENT SUMMARY SHEET: Adding/creating a new project

## Project Details

Date:  Jurisdiction/Agency:

Amendment Requested By:  Grantor Grant #

Project Name:  MUNIS Grant #

Project Description/Details:

Project Type: (select all that apply)

<input type="checkbox"/> capital	<input type="checkbox"/> planning	<input checked="" type="checkbox"/> design/PE	<input type="checkbox"/> right-of-way	<input type="checkbox"/> construction
<input type="checkbox"/> Transit	<input type="checkbox"/> sidewalks	<input type="checkbox"/> trails	<input type="checkbox"/> bike lanes	<input type="checkbox"/> resurfacing
<input type="checkbox"/> signalization	<input type="checkbox"/> intersection	<input type="checkbox"/> ITS	<input type="checkbox"/> safety	<input type="checkbox"/> new road
<input type="checkbox"/> turn lanes	<input type="checkbox"/> operating	<input type="checkbox"/> administration	<input type="checkbox"/> other	

## Project Funding Summary Table: please enter the anticipated funding schedule

FY	Work/Phase	Funding Type	Federal Share	State Share	Local Share	Total
2015	design/engineering	T	500,000			500,000
<b>Funding Totals:</b>			<b>500,000</b>			<b>500,000</b>

Total Project Cost

Please provide additional information or full project description if necessary:

NEW STIP project #: M-0479. Information from NCDOT Item N Handout: "STATEWIDE PROJECT DEVELOPMENT AND ENVIRONMENTAL ANALYSIS, PRELIMINARY ENGINEERING FOR MISCELLANEOUS PROJECTS. ADD PRELIMINARY ENGINEERING IN FY 15 NOT PREVIOUSLY PROGRAMMED."



Please Submit Completed Form to:  
**Lindsay Smart, AICP** email: [lindsay.smart@durhamnc.gov](mailto:lindsay.smart@durhamnc.gov)

# TIP AMENDMENT PROJECT SUMMARY SHEET: Amending an existing project

## Amendment Request Details

Date: 11/12/2014

Amendment Requested By: NCDOT

TIP Amendment (change in funding > \$1million or requires conformity)  TIP Modification (change in funding < \$1 million)

## Existing Project Details

Project Name: BENNETT MEMORIAL ROAD, BENNETT PLACE HISTORIC SITE RENOVATION OF VISITOR CENTER

STIP/TIP #: E-5502

Jurisdiction/Agency: City of Durham

Grantor Grant #

MUNIS Grant #

There are previous amendments for this project.

There are NO previous amendments for this project.

## Existing Project Funding Summary Table: please enter the current project schedule

FY	Work/Phase	Funding Type	Federal Share	State Share	Local Share	Total
2013	construction	STPE	73,000	18,000		91,000
Funding Totals:			73,000	18,000		91,000
						Total Project Cost

## Proposed Funding Summary Table: please enter new/proposed project schedule

FY	Work/Phase	Funding Type	Federal Share	State Share	Local Share	Total
2015	construction	STPE	73,000	18,000		91,000
Funding Totals:			73,000	18,000		91,000
						Total Project Cost

New STIP/TIP # (if applicable):

Project Description/Details/Termini/etc. to be amended (if applicable):

BENNETT MEMORIAL ROAD, BENNETT PLACE. HISTORIC SITE IN DURHAM. RENOVATION OF VISITOR CENTER TO INCLUDE NEW EXHIBITS AND CLIMATE CONTROL SYSTEM, AND RENOVATION OF GIFT SHOP.

Please provide additional details (if applicable):

Information from NCDOT Item N Handout: "DELAY CONSTRUCTION FROM FY 13 TO FY 15. PENDING DEPARTMENT OF CULTURAL RESOURCES SECURING NON-FEDERAL MATCH."

Send by Email

**Contact Information:**  
**Lindsay Smart, AICP**  
**City of Durham/DCHC MPO**  
**[lindsay.smart@durhamnc.gov](mailto:lindsay.smart@durhamnc.gov)**



# TIP AMENDMENT PROJECT SUMMARY SHEET: Amending an existing project

## Amendment Request Details

Date:  Amendment Requested By:

TIP Amendment (change in funding > \$1million or requires conformity)  TIP Modification (change in funding < \$1 million)

## Existing Project Details

Project Name:

STIP/TIP #  Jurisdiction/Agency:

Grantor Grant #  MUNIS Grant #

There are previous amendments for this project.  There are NO previous amendments for this project.

## Existing Project Funding Summary Table: please enter the current project schedule

FY	Work/Phase	Funding Type	Federal Share	State Share	Local Share	Total
2015	operations	CMAQ	3,263,000	653,000		3,916,000
Funding Totals:			3,263,000	653,000		3,916,000
						Total Project Cost

## Proposed Funding Summary Table: please enter new/proposed project schedule

FY	Work/Phase	Funding Type	Federal Share	State Share	Local Share	Total
Funding Totals:						
						Total Project Cost

New STIP/TIP # (if applicable):

Project Description/Details/Termini/etc. to be amended (if applicable):

Please provide additional details (if applicable):

Project deleted from STIP. Information from NCDOT Item N Handout: "DELETE, WORK TO BE ACCOMPLISHED UNDER PROJECT P-2918."

Send by Email

**Contact Information:**  
**Lindsay Smart, AICP**  
**City of Durham/DCHC MPO**  
**[lindsay.smart@durhamnc.gov](mailto:lindsay.smart@durhamnc.gov)**

## REVISIONS TO THE 2012-2020 STIP

## HIGHWAY PROGRAM

## STIP ADDITIONS

## STATEWIDE

M-0479

STATEWIDE

PROJ.CATEGORY

STATEWIDE

STATEWIDE PROJECT DEVELOPMENT AND ENVIRONMENTAL ANALYSIS, PRELIMINARY ENGINEERING FOR MISCELLANEOUS PROJECTS.

ENGINEERING

FY 2015 - \$500,000 (T)  
\$500,000**ADD PRELIMINARY ENGINEERING IN FY 15 NOT PREVIOUSLY PROGRAMMED.**

## STIP MODIFICATIONS

## DIVISION 5

E-5502

DURHAM

PROJ.CATEGORY

DIVISION

BENNETT MEMORIAL ROAD, BENNETT PLACE HISTORIC SITE IN DURHAM. RENOVATION OF VISITOR CENTER TO INCLUDE NEW EXHIBITS AND CLIMATE CONTROL SYSTEM, AND RENOVATION OF GIFT SHOP.

CONSTRUCTION

FY 2015 - \$73,000 (STPE)  
FY 2015 - \$18,000 (L)  
\$91,000**DELAY CONSTRUCTION FROM FY 13 TO FY 15 PENDING DEPARTMENT OF CULTURAL RESOURCES SECURING NON-FEDERAL MATCH.**

## STIP DELETIONS

## STATEWIDE

\* C-5552

STATEWIDE

PROJ.CATEGORY

EXEMPT

VARIOUS, RAIL, FOURTH DAILY FREQUENCY BETWEEN RALEIGH AND CHARLOTTE.

OPERATIONS

FY 2015 - \$3,263,000 (CMAQ)  
FY 2015 - \$653,000 (L)  
\$3,916,000**DELETE, WORK TO BE ACCOMPLISHED UNDER PROJECT P-2918.**

\* INDICATES FEDERAL AMENDMENT

Wednesday, October 01, 2014