



North Carolina Department of Transportation

Highway Stormwater Program
STORMWATER MANAGEMENT PLAN
FOR NCDOT PROJECTS



(Version 2.08; Released April 2018)

WBS Element: TIP No.: U-4714AB County(ies): Mecklenburg Page 1 of 2

General Project Information

WBS Element:	TIP Number:	U-4714AB	Project Type:	Roadway Widening	Date:	6/7/2019
NCDOT Contact:	Malcolm Watson		Contractor / Designer:	Blythe Construction/WSP (Karl Dauber)		
Address:	1020 Birch Ridge Drive Raleigh, NC 27610		Address:	1001 Morehead Square Drive Suite 610 Charlotte, NC 28203		
	Phone: (919) 707-6614			Phone: (704) 342-5403		
	Email: mcwatson@ncdot.gov			Email: Karl.Dauber@wsp.com		
City/Town:	Charlotte		County(ies):	Mecklenburg		
River Basin(s):	Yadkin-Pee Dee		CAMA County?	No		
Wetlands within Project Limits?	No					

Project Description

Project Length (lin. miles or feet):	0.5 miles	Surrounding Land Use:	Urban (residential and commercial)			
Project Built-Upon Area (ac.)	Proposed Project			Existing Site		
	4.6	ac.		4.5	ac.	
Typical Cross Section Description:	There are several cross sections for this project in the typicals provided with the Redline Drainage Plans. Essentially, the project adds toll lanes in the median. In some cases a ditch section is revised to provide pavement. In other cases a large paved median is reduced to account for this new traffic pattern. John street will be expanded to 2 lanes either direction.			There are 2 existing cross section on 485. - Then as you travel on I 485 there are 2 lanes either direction with a variable width grassed median. -John Street is a typically one lane either direction and a middle turn lane.		

Annual Avg Daily Traffic (veh/hr/day):	Design/Future:	1592	Year:	2040	Existing:	1186	Year:	2015
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General Project Narrative:
(Description of Minimization of Water Quality Impacts)

The NCDOT is widening a section of I-485 that lies within the municipal boundaries of the Cities of Charlotte and Matthews. The Design-Build Project I-5507 / R-0211EC / U-4714AB will provide an eastbound and westbound Express Lane within the I-485 median from I-77 to US 74 (Independence Boulevard), a distance of approximately 16.6 miles. The project will also provide an I-485 / Weddington Road interchange, and modify the I-485 / East John Street - Old Monroe Road interchange.

The Impacts for U-4714AB are located on Sheets 64, 65 and 77 of the plan set and are in relation to the widening of 485 and John Street that is needed to accommodate an upgraded interchange at John Street.

Construction will unavoidably impact several streams and wetlands. Where practicable, 2:1 slopes will be used to minimize impacts. Where culverts are being extended in jurisdictional streams rip rap for stabilization is being installed on banks only.

Best Management Practices:
 *Detention Basin
 *Promotion of sheet flow and infiltration with grassed shoulders except where shoulder berm gutter was required.
 *Drainage systems outlet to rip rap pads or riprap lined ditches.
 *Riprap on embankments was used to prevent erosion where ditches enter streams.

Waterbody Information

Surface Water Body (1):	Fourmile Creek (SBB,SBC, SSG, SAG)		NCDWR Stream Index No.:	11-137-9-4		
NCDWR Surface Water Classification for Water Body	Primary Classification:		Class C			
	Supplemental Classification:					
Other Stream Classification:	None					
Impairments:	None					
Aquatic T&E Species?	Comments:					
NRTR Stream ID:	N/A			Buffer Rules in Effect:	N/A	
Project Includes Bridge Spanning Water Body?	No	Deck Drains Discharge Over Buffer?	No	Dissipator Pads Provided in Buffer?	N/A	
Deck Drains Discharge Over Water Body?	No	(If yes, provide justification in the General Project Narrative)		(If yes, describe in the General Project Narrative; if no, justify in the General Project Narrative)		
	(If yes, provide justification in the General Project Narrative)					

